This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents *will not* correct images, please do not report the images to the Image Problem Mailbox.

FIGURE 1

Amino acid sequence for full-length human wild type FAPα [SEQ. ID No. 1]

(Residues 27-760 are underlined)

```
MKTWVKIVFG VATSAVLALL VMCIVLRPSR VHNSEENTMR ALTLKDILNG TFSYKTFFPN    60
WISGQEYLHQ SADNNIVLYN IETGQSYTIL SNRTMKSVNA SNYGLSPDRQ FVYLESDYSK   120
LWRYSYTATY YIYDLSNGEF VRGNELPRPI QYLCWSPVGS KLAYVYQNNI YLKQRPGDPP   180
FQITFNGREN KIFNGIPDWV YEEEMLATKY ALWWSPNGKF LAYAEFNDTD IPVIAYSYYG   240
DEQYPRTINI PYPKAGAKNP VVRIFIIDTT YPAYVGPQEV PVPAMIASSD YYFSWLTWVT   300
DERVCLQWLK RVQNVSVLSI CDFREDWQTW DCPKTQEHIE ESRTGWAGGF FVSTPVFSYD   360
AISYYKIFSD KDGYKHIHYI KDTVENAIQI TSGKWEAINI FRVTQDSLFY SSNEFEEYPG   420
RRNIYRISIG SYPPSKKCVT CHLRKERCQY YTASFSDYAK YYALVCYGPG IPISTLHDGR   480
TDQEIKILEE NKELENALKN IQLPKEEIKK LEVDEITLWY KMILPPQFDR SKKYPLLIQV   540
YGGPCSQSVR SVFAVNWISY LASKEGMVIA LVDGRGTAFQ GDKLLYAVYR KLGVYEVEDQ   600
ITAVRKFIEM GFIDEKRIAI WGWSYGGYVS SLALASGTGL FKCGIAVAPV SSWEYYASVY   660
TERFMGLPTK DDNLEHYKNS TVMARAEYFR NVDYLLIHGT ADDNVHFQNS AQIAKALVNA   720
QVDFQAMWYS DQNHGLSGLS TNHLYTHMTH FLKQCFSLSD                         760
```

Amino acid sequence for residues 27-760 of FAPα with a
C-terminal 6x-histidine tag [SEQ. ID No. 3]
(6x-histidine C-terminal tag and signal sequence are underlined)

```
ADPGRPSRVH NSEENTMRAL TLKDILNGTF SYKTFFPNWI SGQEYLHQSA DNNIVLYNIE    60
TGQSYTILSN RTMKSVNASN YGLSPDRQFV YLESDYSKLW RYSYTATYYI YDLSNGEFVR   120
GNELPRPIQY LCWSPVGSKL AYVYQNNIYL KQRPGDPPFQ ITFNGRENKI FNGIPDWVYE   180
EEMLATKYAL WWSPNGKFLA YAEFNDTDIP VIAYSYYGDE QYPRTINIPY PKAGAKNPVV   240
RIFIIDTTYP AYVGPQEVPV PAMIASSDYY FSWLTWVTDE RVCLQWLKRV QNVSVLSICD   300
FREDWQTWDC PKTQEHIEES RTGWAGGFFV STPVFSYDAI SYYKIFSDKD GYKHIHYIKD   360
TVENAIQITS GKWEAINIFR VTQDSLFYSS NEFEEYPGRR NIYRISIGSY PPSKKCVTCH   420
LRKERCQYYT ASFSDYAKYY ALVCYGPGIP ISTLHDGRTD QEIKILEENK ELENALKNIQ   480
LPKEEIKKLE VDEITLWYKM ILPPQFDRSK KYPLLIQVYG GPCSQSVRSV FAVNWISYLA   540
SKEGMVIALV DGRGTAFQGD KLLYAVYRKL GVYEVEDQIT AVRKFIEMGF IDEKRIAIWG   600
WSYGGYVSSL ALASGTGLFK CGIAVAPVSS WEYYASVYTE RFMGLPTKDD NLEHYKNSTV   660
MARAEYFRNV DYLLIHGTAD DNVHFQNSAQ IAKALVNAQV DFQAMWYSDQ NHGLSGLSTN   720
HLYTHMTHFL KQCFSLSDHH HHHH                                         744
```

FIGURE 1 (Cont.)

Human cDNA sequence encoding residues 27-760 of FAPα [SEQ. ID No. 2]

```
CGCCCTTCAA GAGTTCATAA CTCTGAAGAA AATACAATGA GAGCACTCAC ACTGAAGGAT     60
ATTTTAAATG GAACATTTTC TTATAAAACA TTTTTTCCAA ACTGGATTTC AGGACAAGAA    120
TATCTTCATC AATCTGCAGA TAACAATATA GTACTTTATA ATATTGAAAC AGGACAATCA    180
TATACCATTT TGAGTAATAG AACCATGAAA AGTGTGAATG CTTCAAATTA CGGCTTATCA    240
CCTGATCGGC AATTTGTATA TCTAGAAAGT GATTATTCAA AGCTTTGGAG ATACTCTTAC    300
ACAGCAACAT ATTACATCTA TGACCTTAGC AATGGAGAAT TTGTAAGAGG AAATGAGCTT    360
CCTCGTCCAA TTCAGTATTT ATGCTGGTCG CCTGTTGGGA GTAAATTAGC ATATGTCTAT    420
CAAAACAATA TCTATTTGAA ACAAAGACCA GGAGATCCAC CTTTTCAAAT AACATTTAAT    480
GGAAGAGAAA ATAAAATATT TAATGGAATC CCAGACTGGG TTTATGAAGA GGAAATGCTT    540
GCTACAAAAT ATGCTCTCTG GTGGTCTCCT AATGGAAAAT TTTTGGCATA TGCGGAATTT    600
AATGATACGG ATATACCAGT TATTGCCTAT TCCTATTATG GCGATGAACA ATATCCTAGA    660
ACAATAAATA TTCCATACCC AAAGGCTGGA GCTAAGAATC CCGTTGTTCG GATATTTATT    720
ATCGATACCA CTTACCCTGC GTATGTAGGT CCCCAGGAAG TGCCTGTTCC AGCAATGATA    780
GCCTCAAGTG ATTATTATTT CAGTTGGCTC ACGTGGGTTA CTGATGAACG AGTATGTTTG    840
CAGTGGCTAA AAAGAGTCCA GAATGTTTCG GTCCTGTCTA TATGTGACTT CAGGGAAGAC    900
TGGCAGACAT GGGATTGTCC AAAGACCCAG GAGCATATAG AAGAAAGCAG AACTGGATGG    960
GCTGGTGGAT TCTTTGTTTC AACACCAGTT TTCAGCTATG ATGCCATTTC GTACTACAAA   1020
ATATTTAGTG ACAAGGATGG CTACAAACAT ATTCACTATA TCAAAGACAC TGTGGAAAAT   1080
GCTATTCAAA TTACAAGTGG CAAGTGGGAG GCCATAAATA TATTCAGAGT AACACAGGAT   1140
TCACTGTTTT ATTCTAGCAA TGAATTTGAA GAATACCCTG GAAGAAGAAA CATCTACAGA   1200
ATTAGCATTG GAAGCTATCC TCCAAGCAAG AAGTGTGTTA CTTGCCATCT AAGGAAAGAA   1260
AGGTGCCAAT ATTACACAGC AAGTTTCAGC GACTACGCCA AGTACTATGC ACTTGTCTGC   1320
TACGGCCCAG GCATCCCCAT TTCCACCCTT CATGATGGAC GCACTGATCA AGAAATTAAA   1380
ATCCTGGAAG AAAACAAGGA ATTGGAAAAT GCTTTGAAAA ATATCCAGCT GCCTAAAGAG   1440
GAAATTAAGA AACTTGAAGT AGATGAAATT ACTTTATGGT ACAAGATGAT TCTTCCTCCT   1500
CAATTTGACA GATCAAAGAA GTATCCCTTG CTAATTCAAG TGTATGGTGG TCCCTGCAGT   1560
CAGAGTGTAA GGTCTGTATT TGCTGTTAAT TGGATATCTT ATCTTGCAAG TAAGGAAGGG   1620
ATGGTCATTG CCTTGGTGGA TGGTCGAGGA ACAGCTTTCC AAGGTGACAA ACTCCTCTAT   1680
GCAGTGTATC GAAAGCTGGG TGTTTATGAA GTTGAAGACC AGATTACAGC TGTCAGAAAA   1740
TTCATAGAAA TGGGTTTCAT TGATGAAAAA AGAATAGCCA TATGGGGCTG GTCCTATGGA   1800
GGATACGTTT CATCACTGGC CCTTGCATCT GGAACTGGTC TTTTCAAATG TGGTATAGCA   1860
GTGGCTCCAG TCTCCAGCTG GGAATATTAC GCGTCTGTCT ACACAGAGAG ATTCATGGGT   1920
CTCCCAACAA AGGATGATAA TCTTGAGCAC TATAAGAATT CAACTGTGAT GGCAAGAGCA   1980
GAATATTTCA GAAATGTAGA CTATCTTCTC ATCCACGGAA CAGCAGATGA TAATGTGCAC   2040
TTTCAAAACT CAGCACAGAT TGCTAAAGCT CTGGTTAATG CACAAGTGGA TTTCCAGGCA   2100
ATGTGGTACT CTGACCAGAA CCACGGCTTA TCCGGCCTGT CCACGAACCA CTTATACACC   2160
CACATGACCC ACTTCCTAAA GCAGTGTTTC TCTTTGTCAG AC                      2202
```

FIGURE 2

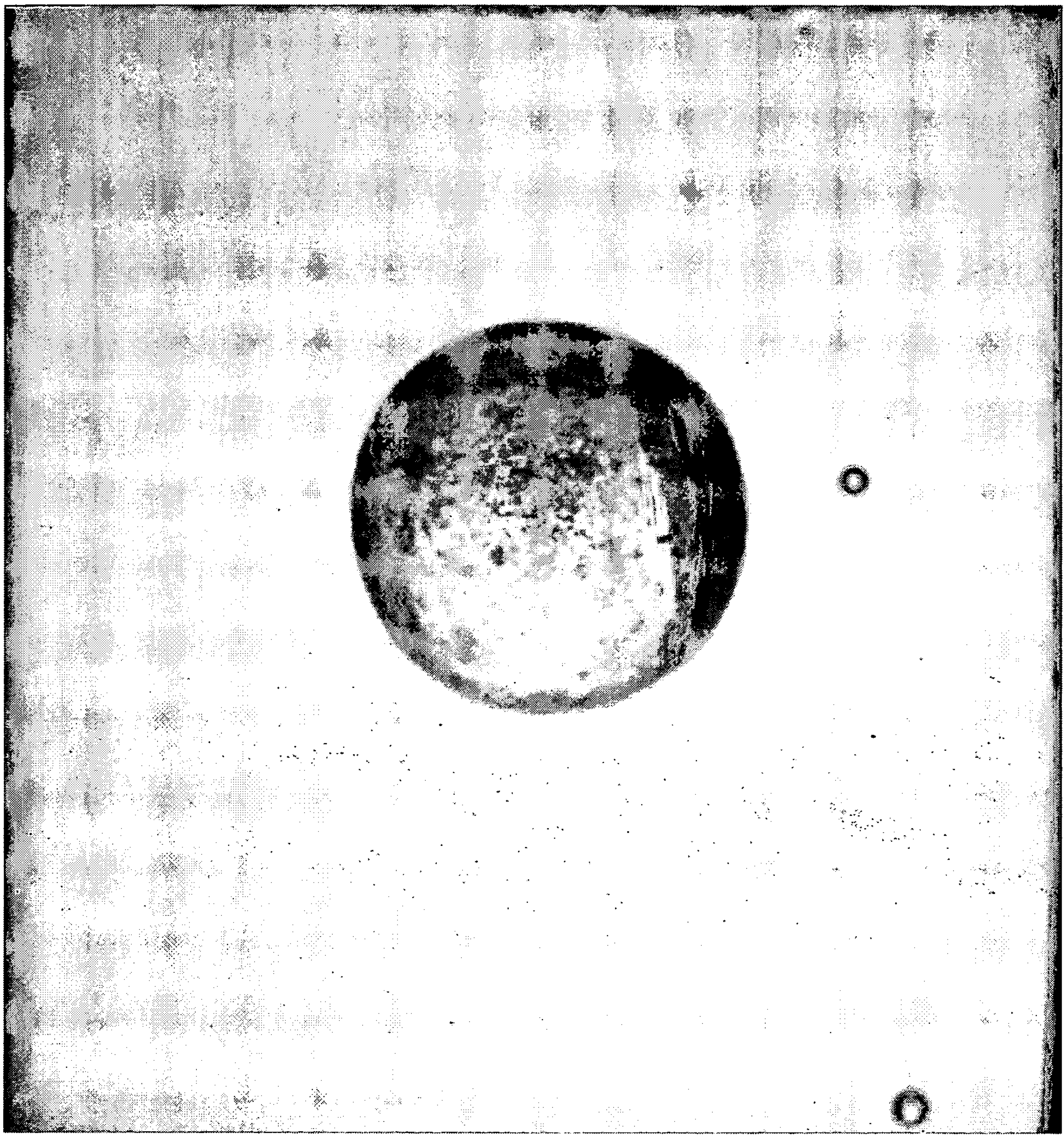


FIGURE 3

LEGEND

Column headings from left to right are (A)'Atom Number', (B)'Atom Type', (C)'Amino Acid', (D)'Chain Identifier', (E)'Amino Acid Number', (F)'X Coordinate', (G)'Y Coordinate', (H)'Z Coordinate', (I)'Occupancy' (OCC) and (J)'B factor'.

A	B	C	D	E	F	G	H	I	J
1	N	MET	A	39	5.996	-20.235	69.783	1.00	18.72
2	CA	MET	A	39	7.324	-20.790	69.338	1.00	19.11
3	CB	MET	A	39	7.346	-22.312	69.513	1.00	20.53
4	CG	MET	A	39	8.358	-22.796	70.590	1.00	24.21
5	SD	MET	A	39	9.670	-21.516	71.105	1.00	32.68
6	CE	MET	A	39	10.431	-22.591	72.605	1.00	28.08
7	C	MET	A	39	7.711	-20.442	67.883	1.00	18.40
8	O	MET	A	39	6.962	-20.696	66.950	1.00	18.52
9	N	ARG	A	40	8.884	-19.871	67.661	1.00	16.98
10	CA	ARG	A	40	9.131	-19.326	66.323	1.00	15.95
11	CB	ARG	A	40	8.357	-18.006	66.139	1.00	15.89
12	CG	ARG	A	40	9.195	-16.728	65.961	1.00	12.97
13	CD	ARG	A	40	8.391	-15.625	65.382	1.00	10.58
14	NE	ARG	A	40	8.571	-14.408	66.124	1.00	8.31
15	CZ	ARG	A	40	9.339	-13.389	65.717	1.00	9.61
16	NH1	ARG	A	40	10.025	-13.429	64.565	1.00	8.91
17	NH2	ARG	A	40	9.413	-12.317	66.478	1.00	7.17
18	C	ARG	A	40	10.576	-19.104	65.952	1.00	15.09
19	O	ARG	A	40	11.399	-18.790	66.791	1.00	14.36
20	N	ALA	A	41	10.836	-19.219	64.656	1.00	14.38
21	CA	ALA	A	41	12.120	-18.829	64.080	1.00	14.10
22	CB	ALA	A	41	12.368	-19.592	62.710	1.00	14.32
23	C	ALA	A	41	12.330	-17.265	63.949	1.00	13.47
24	O	ALA	A	41	11.382	-16.437	63.808	1.00	12.80
25	N	LEU	A	42	13.606	-16.902	64.046	1.00	12.98
26	CA	LEU	A	42	14.034	-15.508	63.901	1.00	12.60
27	CB	LEU	A	42	15.515	-15.320	64.228	1.00	12.38
28	CG	LEU	A	42	16.113	-15.110	65.616	1.00	10.25
29	CD1	LEU	A	42	17.663	-15.173	65.390	1.00	3.66
30	CD2	LEU	A	42	15.762	-13.787	66.312	1.00	5.75
31	C	LEU	A	42	13.791	-15.029	62.476	1.00	12.73
32	O	LEU	A	42	13.827	-15.769	61.502	1.00	11.78
33	N	THR	A	43	13.609	-13.735	62.390	1.00	13.33
34	CA	THR	A	43	13.086	-13.041	61.211	1.00	13.59
35	CB	THR	A	43	11.783	-12.404	61.712	1.00	14.28
36	OG1	THR	A	43	10.694	-13.134	61.178	1.00	15.37
37	CG2	THR	A	43	11.531	-10.976	61.322	1.00	11.61
38	C	THR	A	43	14.124	-12.063	60.852	1.00	14.41
39	O	THR	A	43	14.790	-11.603	61.742	1.00	15.57
40	N	LEU	A	44	14.371	-11.760	59.576	1.00	15.51
41	CA	LEU	A	44	15.348	-10.660	59.246	1.00	15.05
42	CB	LEU	A	44	15.599	-10.568	57.755	1.00	14.85

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
43	CG	LEU	A	44	16.765	-9.733	57.155	1.00	16.98
44	CD1	LEU	A	44	16.536	-8.203	57.295	1.00	19.26
45	CD2	LEU	A	44	18.188	-10.106	57.657	1.00	14.48
46	C	LEU	A	44	14.865	-9.316	59.801	1.00	15.15
47	O	LEU	A	44	15.647	-8.525	60.240	1.00	15.85
48	N	LYS	A	45	13.569	-9.080	59.830	1.00	16.01
49	CA	LYS	A	45	13.000	-7.786	60.296	1.00	17.60
50	CB	LYS	A	45	11.511	-7.634	59.839	1.00	17.78
51	CG	LYS	A	45	11.241	-8.169	58.306	1.00	22.65
52	CD	LYS	A	45	10.926	-9.808	58.154	1.00	27.02
53	CE	LYS	A	45	12.047	-10.704	57.361	1.00	27.25
54	NZ	LYS	A	45	12.270	-12.324	57.621	1.00	26.30
55	C	LYS	A	45	13.228	-7.684	61.834	1.00	17.36
56	O	LYS	A	45	13.500	-6.594	62.393	1.00	17.04
57	N	ASP	A	46	13.285	-8.859	62.457	1.00	15.66
58	CA	ASP	A	46	13.723	-8.969	63.826	1.00	15.42
59	CB	ASP	A	46	13.814	-10.429	64.299	1.00	14.04
60	CG	ASP	A	46	12.462	-11.073	64.572	1.00	17.02
61	OD1	ASP	A	46	11.405	-10.350	64.568	1.00	13.30
62	OD2	ASP	A	46	12.392	-12.344	64.792	1.00	16.49
63	C	ASP	A	46	15.075	-8.333	64.062	1.00	14.62
64	O	ASP	A	46	15.207	-7.574	65.013	1.00	15.32
65	N	ILE	A	47	16.066	-8.722	63.260	1.00	14.42
66	CA	ILE	A	47	17.463	-8.293	63.457	1.00	14.69
67	CB	ILE	A	47	18.497	-8.955	62.519	1.00	14.52
68	CG1	ILE	A	47	19.072	-10.305	63.008	1.00	13.75
69	CD1	ILE	A	47	18.159	-11.185	63.829	1.00	11.25
70	CG2	ILE	A	47	19.743	-8.002	62.393	1.00	13.86
71	C	ILE	A	47	17.614	-6.834	63.178	1.00	15.62
72	O	ILE	A	47	18.456	-6.188	63.780	1.00	15.77
73	N	LEU	A	48	16.823	-6.348	62.219	1.00	16.62
74	CA	LEU	A	48	16.849	-4.953	61.793	1.00	17.97
75	CB	LEU	A	48	16.372	-4.903	60.333	1.00	18.29
76	CG	LEU	A	48	17.355	-5.333	59.270	1.00	18.92
77	CD1	LEU	A	48	16.676	-5.369	57.928	1.00	19.37
78	CD2	LEU	A	48	18.541	-4.366	59.295	1.00	15.65
79	C	LEU	A	48	15.930	-4.013	62.561	1.00	18.54
80	O	LEU	A	48	15.990	-2.805	62.333	1.00	19.45
81	N	ASN	A	49	15.000	-4.534	63.373	1.00	20.15
82	CA	ASN	A	49	14.146	-3.605	64.195	1.00	21.20
83	CB	ASN	A	49	12.785	-4.135	64.705	1.00	20.43
84	CG	ASN	A	49	12.037	-3.088	65.641	1.00	22.53
85	OD1	ASN	A	49	11.804	-1.960	65.197	1.00	19.77
86	ND2	ASN	A	49	11.678	-3.470	66.923	1.00	30.07
87	C	ASN	A	49	14.931	-3.198	65.417	1.00	21.33
88	O	ASN	A	49	14.663	-2.145	66.007	1.00	23.07
89	N	GLY	A	50	15.885	-4.020	65.815	1.00	20.02
90	CA	GLY	A	50	16.498	-3.815	67.101	1.00	19.31
91	C	GLY	A	50	15.747	-4.590	68.144	1.00	17.27
92	O	GLY	A	50	16.054	-4.438	69.281	1.00	18.84
93	N	THR	A	51	14.875	-5.505	67.735	1.00	15.74

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
94	CA	THR	A	51	13.996	-6.248	68.644	1.00	14.31
95	CB	THR	A	51	13.109	-7.210	67.780	1.00	14.30
96	OG1	THR	A	51	12.302	-6.469	66.844	1.00	15.09
97	CG2	THR	A	51	12.069	-7.897	68.652	1.00	14.72
98	C	THR	A	51	14.681	-7.031	69.829	1.00	12.68
99	O	THR	A	51	14.119	-7.116	70.920	1.00	11.50
100	N	PHE	A	52	15.876	-7.581	69.588	1.00	12.04
101	CA	PHE	A	52	16.603	-8.489	70.545	1.00	11.64
102	CB	PHE	A	52	16.654	-9.955	70.080	1.00	11.15
103	CG	PHE	A	52	15.308	-10.485	69.668	1.00	12.45
104	CD1	PHE	A	52	14.995	-10.697	68.317	1.00	15.96
105	CE1	PHE	A	52	13.681	-11.194	67.947	1.00	16.74
106	CZ	PHE	A	52	12.716	-11.409	68.924	1.00	14.74
107	CE2	PHE	A	52	13.024	-11.173	70.242	1.00	11.99
108	CD2	PHE	A	52	14.304	-10.705	70.611	1.00	11.32
109	C	PHE	A	52	17.990	-7.941	70.817	1.00	11.42
110	O	PHE	A	52	19.005	-8.630	70.807	1.00	11.89
111	N	SER	A	53	17.993	-6.649	71.057	1.00	11.22
112	CA	SER	A	53	19.156	-6.013	71.563	1.00	10.82
113	CB	SER	A	53	19.324	-4.626	70.948	1.00	9.12
114	OG	SER	A	53	18.402	-3.717	71.518	1.00	12.04
115	C	SER	A	53	18.938	-5.901	73.030	1.00	9.91
116	O	SER	A	53	17.819	-6.139	73.568	1.00	11.56
117	N	TYR	A	54	20.018	-5.422	73.629	1.00	9.85
118	CA	TYR	A	54	20.271	-5.483	75.029	1.00	9.01
119	CB	TYR	A	54	21.205	-6.624	75.318	1.00	8.61
120	CG	TYR	A	54	22.611	-6.556	74.799	1.00	9.19
121	CD1	TYR	A	54	23.026	-7.360	73.746	1.00	12.75
122	CE1	TYR	A	54	24.384	-7.353	73.313	1.00	13.40
123	CZ	TYR	A	54	25.298	-6.536	73.945	1.00	12.20
124	OH	TYR	A	54	26.581	-6.488	73.554	1.00	10.82
125	CE2	TYR	A	54	24.920	-5.754	74.978	1.00	13.01
126	CD2	TYR	A	54	23.551	-5.766	75.397	1.00	14.53
127	C	TYR	A	54	20.911	-4.258	75.525	1.00	9.27
128	O	TYR	A	54	21.561	-3.551	74.779	1.00	8.44
129	N	LYS	A	55	20.720	-4.041	76.821	1.00	10.40
130	CA	LYS	A	55	20.974	-2.770	77.458	1.00	11.62
131	CB	LYS	A	55	19.750	-2.284	78.281	1.00	11.72
132	CG	LYS	A	55	18.645	-1.501	77.484	1.00	10.17
133	CD	LYS	A	55	17.297	-1.188	78.224	1.00	11.24
134	CE	LYS	A	55	15.998	-1.598	77.356	1.00	15.81
135	NZ	LYS	A	55	14.771	-0.650	77.106	1.00	14.91
136	C	LYS	A	55	22.210	-3.004	78.297	1.00	12.86
137	O	LYS	A	55	22.493	-4.139	78.634	1.00	13.09
138	N	THR	A	56	22.948	-1.943	78.599	1.00	13.45
139	CA	THR	A	56	24.189	-2.050	79.314	1.00	14.77
140	CB	THR	A	56	25.334	-1.785	78.343	1.00	15.88
141	OG1	THR	A	56	26.333	-2.807	78.470	1.00	16.48
142	CG2	THR	A	56	26.059	-0.380	78.595	1.00	15.73
143	C	THR	A	56	24.142	-0.985	80.336	1.00	15.69
144	O	THR	A	56	23.364	-0.062	80.179	1.00	16.61

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
145	N	PHE	A	57	24.948	-1.083	81.390	1.00	15.93
146	CA	PHE	A	57	24.946	-0.039	82.404	1.00	16.55
147	CB	PHE	A	57	24.073	-0.419	83.581	1.00	16.39
148	CG	PHE	A	57	23.646	0.762	84.368	1.00	17.84
149	CD1	PHE	A	57	22.336	1.216	84.291	1.00	15.89
150	CE1	PHE	A	57	21.950	2.338	85.033	1.00	17.15
151	CZ	PHE	A	57	22.903	3.019	85.824	1.00	17.56
152	CE2	PHE	A	57	24.238	2.590	85.872	1.00	16.66
153	CD2	PHE	A	57	24.599	1.487	85.143	1.00	17.63
154	C	PHE	A	57	26.323	0.394	82.909	1.00	17.33
155	O	PHE	A	57	26.897	-0.265	83.809	1.00	17.28
156	N	PHE	A	58	26.837	1.511	82.352	1.00	17.62
157	CA	PHE	A	58	28.131	2.054	82.776	1.00	17.62
158	CB	PHE	A	58	28.966	2.435	81.565	1.00	18.16
159	CG	PHE	A	58	29.630	1.257	80.936	1.00	20.34
160	CD1	PHE	A	58	30.973	0.991	81.150	1.00	21.80
161	CE1	PHE	A	58	31.581	-0.119	80.561	1.00	22.82
162	CZ	PHE	A	58	30.803	-0.982	79.762	1.00	23.50
163	CE2	PHE	A	58	29.454	-0.714	79.563	1.00	21.00
164	CD2	PHE	A	58	28.888	0.394	80.159	1.00	19.20
165	C	PHE	A	58	27.913	3.281	83.577	1.00	16.92
166	O	PHE	A	58	27.682	4.333	82.954	1.00	18.18
167	N	PRO	A	59	27.991	3.200	84.911	1.00	15.53
168	CA	PRO	A	59	27.721	4.383	85.768	1.00	14.83
169	CB	PRO	A	59	28.125	3.940	87.215	1.00	14.69
170	CG	PRO	A	59	28.472	2.514	87.153	1.00	15.46
171	CD	PRO	A	59	28.317	2.012	85.697	1.00	15.74
172	C	PRO	A	59	28.501	5.629	85.323	1.00	13.68
173	O	PRO	A	59	29.683	5.477	85.115	1.00	12.82
174	N	ASN	A	60	27.847	6.774	85.133	1.00	13.18
175	CA	ASN	A	60	28.571	8.011	84.786	1.00	13.19
176	CB	ASN	A	60	27.609	9.077	84.170	1.00	13.54
177	CG	ASN	A	60	28.337	10.369	83.666	1.00	15.33
178	OD1	ASN	A	60	29.575	10.446	83.690	1.00	17.17
179	ND2	ASN	A	60	27.553	11.392	83.243	1.00	10.26
180	C	ASN	A	60	29.242	8.541	86.055	1.00	12.64
181	O	ASN	A	60	28.732	9.461	86.685	1.00	12.85
182	N	TRP	A	61	30.399	7.977	86.422	1.00	11.55
183	CA	TRP	A	61	31.048	8.301	87.708	1.00	10.82
184	CB	TRP	A	61	32.389	7.580	87.845	1.00	10.12
185	CG	TRP	A	61	32.326	6.147	87.828	1.00	11.57
186	CD1	TRP	A	61	32.857	5.313	86.890	1.00	13.87
187	NE1	TRP	A	61	32.601	4.010	87.224	1.00	13.21
188	CE2	TRP	A	61	31.905	3.983	88.388	1.00	10.56
189	CD2	TRP	A	61	31.717	5.307	88.797	1.00	11.82
190	CE3	TRP	A	61	31.041	5.542	89.995	1.00	12.82
191	CZ3	TRP	A	61	30.572	4.480	90.681	1.00	9.33
192	CH2	TRP	A	61	30.783	3.192	90.235	1.00	10.60
193	CZ2	TRP	A	61	31.458	2.931	89.092	1.00	13.27
194	C	TRP	A	61	31.323	9.834	87.885	1.00	10.54
195	O	TRP	A	61	31.470	10.608	86.921	1.00	11.34

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
196	N	ILE	A	62	31.393	10.252	89.131	1.00	9.39
197	CA	ILE	A	62	31.720	11.607	89.428	1.00	9.06
198	CB	ILE	A	62	30.395	12.487	89.455	1.00	9.36
199	CG1	ILE	A	62	29.432	12.124	90.605	1.00	7.29
200	CD1	ILE	A	62	28.562	13.338	90.961	1.00	5.84
201	CG2	ILE	A	62	29.660	12.481	88.103	1.00	6.47
202	C	ILE	A	62	32.503	11.727	90.731	1.00	9.87
203	O	ILE	A	62	32.757	12.824	91.206	1.00	10.88
204	N	SER	A	63	32.883	10.604	91.316	1.00	9.24
205	CA	SER	A	63	33.346	10.590	92.693	1.00	9.36
206	CB	SER	A	63	32.292	11.212	93.634	1.00	9.16
207	OG	SER	A	63	31.861	10.376	94.711	1.00	9.23
208	C	SER	A	63	33.683	9.134	92.998	1.00	9.93
209	O	SER	A	63	33.630	8.276	92.099	1.00	9.48
210	N	GLY	A	64	34.082	8.848	94.237	1.00	10.65
211	CA	GLY	A	64	34.439	7.496	94.599	1.00	11.15
212	C	GLY	A	64	33.243	6.572	94.712	1.00	11.77
213	O	GLY	A	64	33.377	5.314	94.545	1.00	12.75
214	N	GLN	A	65	32.090	7.210	94.936	1.00	11.89
215	CA	GLN	A	65	30.863	6.591	95.432	1.00	12.79
216	CB	GLN	A	65	30.871	6.725	96.989	1.00	13.12
217	CG	GLN	A	65	30.850	8.225	97.521	1.00	14.83
218	CD	GLN	A	65	32.243	8.767	97.953	1.00	16.43
219	OE1	GLN	A	65	32.697	9.852	97.477	1.00	15.70
220	NE2	GLN	A	65	32.916	8.009	98.845	1.00	14.44
221	C	GLN	A	65	29.555	7.184	94.862	1.00	12.40
222	O	GLN	A	65	28.478	6.670	95.126	1.00	11.85
223	N	GLU	A	66	29.657	8.280	94.116	1.00	12.78
224	CA	GLU	A	66	28.532	8.875	93.387	1.00	12.93
225	CB	GLU	A	66	28.474	10.353	93.709	1.00	12.49
226	CG	GLU	A	66	27.824	10.658	95.042	1.00	12.51
227	CD	GLU	A	66	28.404	11.874	95.710	1.00	12.33
228	OE1	GLU	A	66	29.628	12.025	95.602	1.00	12.64
229	OE2	GLU	A	66	27.645	12.646	96.353	1.00	12.79
230	C	GLU	A	66	28.657	8.717	91.867	1.00	14.11
231	O	GLU	A	66	29.772	8.744	91.359	1.00	14.76
232	N	TYR	A	67	27.512	8.517	91.167	1.00	15.04
233	CA	TYR	A	67	27.346	8.571	89.683	1.00	15.44
234	CB	TYR	A	67	27.515	7.172	89.066	1.00	15.00
235	CG	TYR	A	67	26.475	6.140	89.470	1.00	15.73
236	CD1	TYR	A	67	25.225	6.089	88.842	1.00	16.82
237	CE1	TYR	A	67	24.242	5.114	89.200	1.00	14.43
238	CZ	TYR	A	67	24.509	4.191	90.181	1.00	14.47
239	OH	TYR	A	67	23.522	3.242	90.534	1.00	12.72
240	CE2	TYR	A	67	25.764	4.228	90.816	1.00	13.29
241	CD2	TYR	A	67	26.734	5.193	90.457	1.00	14.13
242	C	TYR	A	67	25.997	9.159	89.217	1.00	15.99
243	O	TYR	A	67	25.002	9.097	89.908	1.00	16.12
244	N	LEU	A	68	25.971	9.711	88.018	1.00	17.23
245	CA	LEU	A	68	24.740	10.223	87.408	1.00	18.97
246	CB	LEU	A	68	24.914	11.630	86.857	1.00	18.44

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
247	CG	LEU	A	68	25.495	12.644	87.827	1.00	18.39
248	CD1	LEU	A	68	25.843	13.968	87.139	1.00	17.07
249	CD2	LEU	A	68	24.533	12.894	88.937	1.00	18.71
250	C	LEU	A	68	24.261	9.341	86.257	1.00	20.37
251	O	LEU	A	68	25.041	8.890	85.398	1.00	20.91
252	N	HIS	A	69	22.956	9.090	86.253	1.00	22.04
253	CA	HIS	A	69	22.335	8.339	85.174	1.00	23.79
254	CB	HIS	A	69	22.457	6.778	85.317	1.00	24.32
255	CG	HIS	A	69	21.478	6.045	84.448	1.00	28.84
256	ND1	HIS	A	69	21.536	6.092	83.061	1.00	32.10
257	CE1	HIS	A	69	20.502	5.446	82.556	1.00	33.99
258	NE2	HIS	A	69	19.779	4.977	83.567	1.00	34.77
259	CD2	HIS	A	69	20.350	5.359	84.758	1.00	30.61
260	C	HIS	A	69	20.895	8.812	85.013	1.00	23.62
261	O	HIS	A	69	20.347	9.378	85.931	1.00	23.90
262	N	GLN	A	70	20.340	8.577	83.814	1.00	24.31
263	CA	GLN	A	70	19.129	9.210	83.263	1.00	24.62
264	CB	GLN	A	70	19.385	9.621	81.793	1.00	24.67
265	CG	GLN	A	70	18.642	10.891	81.321	1.00	24.32
266	CD	GLN	A	70	18.525	11.010	79.803	1.00	25.83
267	OE1	GLN	A	70	19.451	11.472	79.134	1.00	26.88
268	NE2	GLN	A	70	17.381	10.610	79.264	1.00	26.14
269	C	GLN	A	70	17.935	8.283	83.283	1.00	25.21
270	O	GLN	A	70	18.041	7.128	82.859	1.00	25.68
271	N	SER	A	71	16.786	8.795	83.714	1.00	25.33
272	CA	SER	A	71	15.586	7.977	83.764	1.00	25.53
273	CB	SER	A	71	14.616	8.532	84.817	1.00	25.68
274	OG	SER	A	71	14.653	9.965	84.916	1.00	25.72
275	C	SER	A	71	14.959	7.927	82.371	1.00	25.84
276	O	SER	A	71	15.424	8.619	81.467	1.00	25.27
277	N	ALA	A	72	13.915	7.093	82.206	1.00	26.61
278	CA	ALA	A	72	13.007	7.127	81.010	1.00	27.01
279	CB	ALA	A	72	12.646	5.675	80.518	1.00	27.13
280	C	ALA	A	72	11.718	7.976	81.254	1.00	27.14
281	O	ALA	A	72	10.603	7.660	80.771	1.00	27.08
282	N	ASP	A	73	11.988	8.991	82.231	1.00	27.21
283	CA	ASP	A	73	11.209	10.256	82.215	1.00	26.90
284	CB	ASP	A	73	10.346	10.367	83.495	1.00	27.37
285	CG	ASP	A	73	11.104	9.909	84.775	1.00	29.80
286	OD1	ASP	A	73	11.355	8.675	84.978	1.00	31.78
287	OD2	ASP	A	73	11.510	10.741	85.623	1.00	31.90
288	C	ASP	A	73	12.244	11.442	82.035	1.00	25.82
289	O	ASP	A	73	11.920	12.663	82.142	1.00	25.70
290	N	ASN	A	74	13.338	11.081	81.640	1.00	24.10
291	CA	ASN	A	74	14.463	11.928	81.225	1.00	22.99
292	CB	ASN	A	74	14.195	12.605	79.862	1.00	23.27
293	CG	ASN	A	74	13.935	11.599	78.757	1.00	23.78
294	OD1	ASN	A	74	12.981	11.761	77.991	1.00	22.98
295	ND2	ASN	A	74	14.779	10.542	78.670	1.00	24.57
296	C	ASN	A	74	14.979	12.930	82.243	1.00	22.14
297	O	ASN	A	74	15.091	14.134	81.959	1.00	22.81

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
298	N	ASN	A	75	15.355	12.406	83.402	1.00	20.65
299	CA	ASN	A	75	15.893	13.220	84.473	1.00	18.67
300	CB	ASN	A	75	14.959	13.130	85.695	1.00	18.68
301	CG	ASN	A	75	14.044	14.363	85.813	1.00	19.45
302	OD1	ASN	A	75	14.535	15.494	85.685	1.00	21.53
303	ND2	ASN	A	75	12.729	14.163	86.029	1.00	17.11
304	C	ASN	A	75	17.324	12.811	84.766	1.00	17.19
305	O	ASN	A	75	17.648	11.651	84.676	1.00	16.62
306	N	ILE	A	76	18.199	13.770	85.045	1.00	16.09
307	CA	ILE	A	76	19.592	13.437	85.390	1.00	15.84
308	CB	ILE	A	76	20.633	14.457	84.788	1.00	16.02
309	CG1	ILE	A	76	20.816	14.301	83.261	1.00	16.34
310	CD1	ILE	A	76	19.618	14.732	82.374	1.00	16.89
311	CG2	ILE	A	76	22.027	14.207	85.405	1.00	15.17
312	C	ILE	A	76	19.788	13.335	86.918	1.00	15.48
313	O	ILE	A	76	19.919	14.370	87.612	1.00	15.41
314	N	VAL	A	77	19.858	12.103	87.426	1.00	14.62
315	CA	VAL	A	77	19.832	11.851	88.867	1.00	14.32
316	CB	VAL	A	77	18.554	11.000	89.323	1.00	14.25
317	CG1	VAL	A	77	18.814	10.182	90.590	1.00	14.77
318	CG2	VAL	A	77	18.022	10.077	88.240	1.00	13.50
319	C	VAL	A	77	21.176	11.275	89.388	1.00	14.33
320	O	VAL	A	77	21.778	10.346	88.777	1.00	13.65
321	N	LEU	A	78	21.610	11.893	90.508	1.00	13.90
322	CA	LEU	A	78	22.829	11.578	91.262	1.00	13.45
323	CB	LEU	A	78	23.308	12.842	91.990	1.00	13.32
324	CG	LEU	A	78	24.655	12.932	92.728	1.00	14.74
325	CD1	LEU	A	78	25.251	14.378	92.805	1.00	14.33
326	CD2	LEU	A	78	24.537	12.357	94.170	1.00	16.01
327	C	LEU	A	78	22.478	10.503	92.252	1.00	13.05
328	O	LEU	A	78	21.584	10.688	93.046	1.00	12.82
329	N	TYR	A	79	23.122	9.347	92.143	1.00	12.79
330	CA	TYR	A	79	22.912	8.262	93.088	1.00	12.79
331	CB	TYR	A	79	22.486	6.887	92.455	1.00	13.37
332	CG	TYR	A	79	21.356	6.862	91.384	1.00	15.77
333	CD1	TYR	A	79	19.996	6.715	91.736	1.00	17.71
334	CE1	TYR	A	79	18.968	6.687	90.740	1.00	17.02
335	CZ	TYR	A	79	19.312	6.801	89.394	1.00	18.44
336	OH	TYR	A	79	18.365	6.776	88.378	1.00	19.37
337	CE2	TYR	A	79	20.655	6.935	89.021	1.00	17.96
338	CD2	TYR	A	79	21.666	6.939	90.001	1.00	17.47
339	C	TYR	A	79	24.259	8.133	93.771	1.00	12.29
340	O	TYR	A	79	25.297	8.183	93.135	1.00	10.21
341	N	ASN	A	80	24.215	7.986	95.094	1.00	12.78
342	CA	ASN	A	80	25.379	7.750	95.930	1.00	13.50
343	CB	ASN	A	80	25.420	8.835	97.021	1.00	13.43
344	CG	ASN	A	80	26.538	8.645	98.036	1.00	14.23
345	OD1	ASN	A	80	27.027	7.549	98.231	1.00	13.93
346	ND2	ASN	A	80	26.924	9.734	98.708	1.00	16.40
347	C	ASN	A	80	25.125	6.345	96.457	1.00	14.57
348	O	ASN	A	80	23.972	5.986	96.817	1.00	15.19

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
349	N	THR	A	81	26.173	5.524	96.453	1.00	14.93
350	CA	THR	A	81	26.003	4.101	96.799	1.00	15.23
351	CB	THR	A	81	26.840	3.101	95.873	1.00	15.43
352	OG1	THR	A	81	28.009	2.584	96.547	1.00	16.74
353	CG2	THR	A	81	27.365	3.775	94.560	1.00	15.35
354	C	THR	A	81	26.232	3.912	98.293	1.00	14.71
355	O	THR	A	81	25.419	3.241	98.944	1.00	15.33
356	N	GLU	A	82	27.293	4.537	98.819	1.00	13.94
357	CA	GLU	A	82	27.545	4.751	100.280	1.00	13.54
358	CB	GLU	A	82	28.582	5.886	100.463	1.00	13.43
359	CG	GLU	A	82	29.322	5.940	101.803	1.00	16.22
360	CD	GLU	A	82	30.823	5.615	101.711	1.00	18.50
361	OE1	GLU	A	82	31.444	5.751	100.620	1.00	18.49
362	OE2	GLU	A	82	31.387	5.209	102.756	1.00	19.04
363	C	GLU	A	82	26.317	5.105	101.149	1.00	13.15
364	O	GLU	A	82	26.162	4.645	102.277	1.00	12.25
365	N	THR	A	83	25.454	5.933	100.577	1.00	12.83
366	CA	THR	A	83	24.427	6.660	101.293	1.00	12.03
367	CB	THR	A	83	24.895	8.156	101.145	1.00	11.57
368	OG1	THR	A	83	25.093	8.702	102.433	1.00	13.35
369	CG2	THR	A	83	23.924	9.131	100.443	1.00	11.74
370	C	THR	A	83	23.010	6.218	100.785	1.00	11.88
371	O	THR	A	83	21.971	6.439	101.415	1.00	10.56
372	N	GLY	A	84	23.007	5.501	99.655	1.00	12.41
373	CA	GLY	A	84	21.832	4.802	99.146	1.00	12.95
374	C	GLY	A	84	20.725	5.756	98.786	1.00	13.34
375	O	GLY	A	84	19.583	5.335	98.668	1.00	13.62
376	N	GLN	A	85	21.108	7.032	98.617	1.00	13.64
377	CA	GLN	A	85	20.222	8.179	98.387	1.00	13.55
378	CB	GLN	A	85	20.612	9.419	99.230	1.00	13.67
379	CG	GLN	A	85	20.151	9.519	100.699	1.00	12.71
380	CD	GLN	A	85	18.840	8.890	100.999	1.00	10.49
381	OE1	GLN	A	85	18.758	7.665	101.074	1.00	7.86
382	NE2	GLN	A	85	17.817	9.716	101.254	1.00	10.34
383	C	GLN	A	85	20.399	8.596	96.960	1.00	13.91
384	O	GLN	A	85	21.196	8.017	96.208	1.00	14.43
385	N	SER	A	86	19.618	9.614	96.609	1.00	14.07
386	CA	SER	A	86	19.557	10.202	95.280	1.00	13.78
387	CB	SER	A	86	18.835	9.290	94.261	1.00	13.75
388	OG	SER	A	86	19.102	7.908	94.481	1.00	14.63
389	C	SER	A	86	18.792	11.505	95.347	1.00	13.87
390	O	SER	A	86	17.909	11.652	96.191	1.00	14.26
391	N	TYR	A	87	19.166	12.444	94.472	1.00	13.71
392	CA	TYR	A	87	18.257	13.473	93.977	1.00	13.48
393	CB	TYR	A	87	18.462	14.813	94.711	1.00	13.38
394	CG	TYR	A	87	19.836	15.431	94.516	1.00	13.97
395	CD1	TYR	A	87	20.008	16.560	93.710	1.00	13.86
396	CE1	TYR	A	87	21.284	17.150	93.525	1.00	14.46
397	CZ	TYR	A	87	22.403	16.593	94.137	1.00	14.95
398	OH	TYR	A	87	23.650	17.159	93.943	1.00	14.77
399	CE2	TYR	A	87	22.256	15.460	94.942	1.00	15.24

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
400	CD2	TYR	A	87	20.969	14.886	95.131	1.00	14.84
401	C	TYR	A	87	18.402	13.634	92.440	1.00	13.50
402	O	TYR	A	87	19.367	13.183	91.846	1.00	12.60
403	N	THR	A	88	17.388	14.240	91.825	1.00	14.12
404	CA	THR	A	88	17.439	14.842	90.476	1.00	14.18
405	CB	THR	A	88	15.957	15.310	90.022	1.00	14.15
406	OG1	THR	A	88	14.960	14.290	90.226	1.00	12.95
407	CG2	THR	A	88	15.898	15.542	88.555	1.00	13.55
408	C	THR	A	88	18.350	16.104	90.488	1.00	14.38
409	O	THR	A	88	18.011	17.081	91.154	1.00	14.61
410	N	ILE	A	89	19.482	16.114	89.783	1.00	14.78
411	CA	ILE	A	89	20.183	17.404	89.604	1.00	15.33
412	CB	ILE	A	89	21.652	17.327	89.167	1.00	15.69
413	CG1	ILE	A	89	22.439	16.249	89.835	1.00	13.64
414	CD1	ILE	A	89	23.919	16.540	89.677	1.00	13.30
415	CG2	ILE	A	89	22.327	18.734	89.469	1.00	16.02
416	C	ILE	A	89	19.619	18.314	88.556	1.00	15.23
417	O	ILE	A	89	19.716	19.511	88.711	1.00	15.60
418	N	LEU	A	90	19.195	17.746	87.431	1.00	15.41
419	CA	LEU	A	90	18.829	18.533	86.229	1.00	15.67
420	CB	LEU	A	90	19.888	18.362	85.097	1.00	15.06
421	CG	LEU	A	90	20.796	19.541	84.642	1.00	12.97
422	CD1	LEU	A	90	21.690	19.111	83.496	1.00	10.18
423	CD2	LEU	A	90	20.013	20.735	84.222	1.00	9.17
424	C	LEU	A	90	17.429	18.122	85.755	1.00	16.27
425	O	LEU	A	90	17.137	16.936	85.531	1.00	16.12
426	N	SER	A	91	16.570	19.101	85.577	1.00	17.29
427	CA	SER	A	91	15.146	18.805	85.465	1.00	17.94
428	CB	SER	A	91	14.312	20.017	85.887	1.00	18.08
429	OG	SER	A	91	15.142	21.113	86.229	1.00	18.37
430	C	SER	A	91	14.841	18.045	84.179	1.00	18.46
431	O	SER	A	91	15.725	17.752	83.274	1.00	17.80
432	N	ASN	A	92	13.633	17.391	84.081	1.00	18.80
433	CA	ASN	A	92	13.209	16.645	82.884	1.00	18.76
434	CB	ASN	A	92	11.959	15.677	83.058	1.00	19.07
435	CG	ASN	A	92	10.713	16.301	83.767	1.00	20.75
436	OD1	ASN	A	92	10.818	17.373	84.396	1.00	21.44
437	ND2	ASN	A	92	9.567	15.661	83.659	1.00	29.44
438	C	ASN	A	92	13.072	17.708	81.833	1.00	18.24
439	O	ASN	A	92	13.427	17.500	80.672	1.00	17.99
440	N	ARG	A	93	12.678	18.886	82.329	1.00	17.90
441	CA	ARG	A	93	12.330	20.065	81.537	1.00	17.98
442	CB	ARG	A	93	11.086	20.780	82.170	1.00	18.46
443	CG	ARG	A	93	9.662	20.410	81.569	1.00	18.83
444	CD	ARG	A	93	9.451	18.918	81.215	1.00	19.16
445	NE	ARG	A	93	10.042	18.493	79.912	1.00	19.11
446	CZ	ARG	A	93	10.369	17.207	79.570	1.00	17.90
447	NH1	ARG	A	93	10.179	16.187	80.408	1.00	18.19
448	NH2	ARG	A	93	10.888	16.932	78.371	1.00	17.47
449	C	ARG	A	93	13.456	21.087	81.311	1.00	17.30
450	O	ARG	A	93	13.238	22.010	80.553	1.00	17.07

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
451	N	THR	A	94	14.621	20.977	81.948	1.00	16.64
452	CA	THR	A	94	15.673	21.973	81.672	1.00	16.21
453	CB	THR	A	94	16.431	22.460	82.982	1.00	16.20
454	OG1	THR	A	94	15.682	23.522	83.563	1.00	15.55
455	CG2	THR	A	94	17.764	23.194	82.709	1.00	14.48
456	C	THR	A	94	16.580	21.436	80.540	1.00	16.45
457	O	THR	A	94	17.100	22.210	79.687	1.00	16.45
458	N	MET	A	95	16.745	20.112	80.501	1.00	15.70
459	CA	MET	A	95	17.289	19.483	79.305	1.00	15.42
460	CB	MET	A	95	17.330	17.951	79.404	1.00	14.82
461	CG	MET	A	95	18.372	17.444	80.352	1.00	15.62
462	SD	MET	A	95	20.097	17.885	79.972	1.00	17.82
463	CE	MET	A	95	20.783	16.258	79.598	1.00	16.02
464	C	MET	A	95	16.394	19.892	78.139	1.00	15.45
465	O	MET	A	95	16.874	20.494	77.182	1.00	15.29
466	N	LYS	A	96	15.097	19.592	78.230	1.00	15.36
467	CA	LYS	A	96	14.246	19.839	77.096	1.00	15.26
468	CB	LYS	A	96	12.773	19.507	77.369	1.00	15.23
469	CG	LYS	A	96	11.843	19.456	76.117	1.00	15.45
470	CD	LYS	A	96	12.169	18.246	75.197	1.00	17.12
471	CE	LYS	A	96	11.514	18.401	73.790	1.00	15.82
472	NZ	LYS	A	96	12.411	19.054	72.795	1.00	14.49
473	C	LYS	A	96	14.451	21.315	76.753	1.00	15.40
474	O	LYS	A	96	14.842	21.624	75.623	1.00	15.41
475	N	SER	A	97	14.276	22.208	77.748	1.00	15.45
476	CA	SER	A	97	14.265	23.667	77.537	1.00	14.60
477	CB	SER	A	97	14.750	24.457	78.783	1.00	14.42
478	OG	SER	A	97	16.141	24.724	78.788	1.00	13.32
479	C	SER	A	97	15.035	24.002	76.252	1.00	14.60
480	O	SER	A	97	14.470	24.617	75.360	1.00	14.41
481	N	VAL	A	98	16.274	23.511	76.117	1.00	14.43
482	CA	VAL	A	98	17.045	23.700	74.882	1.00	14.56
483	CB	VAL	A	98	18.154	24.834	75.089	1.00	14.28
484	CG1	VAL	A	98	18.454	25.572	73.746	1.00	15.69
485	CG2	VAL	A	98	19.412	24.329	75.781	1.00	14.91
486	C	VAL	A	98	17.547	22.365	74.234	1.00	14.01
487	O	VAL	A	98	18.697	22.037	74.336	1.00	13.69
488	N	ASN	A	99	16.673	21.710	73.460	1.00	13.73
489	CA	ASN	A	99	16.708	20.244	73.193	1.00	13.79
490	CB	ASN	A	99	15.700	19.780	72.079	1.00	13.45
491	CG	ASN	A	99	15.779	20.579	70.763	1.00	13.60
492	OD1	ASN	A	99	16.610	20.275	69.886	1.00	9.80
493	ND2	ASN	A	99	14.836	21.552	70.582	1.00	15.11
494	C	ASN	A	99	18.079	19.490	73.132	1.00	13.68
495	O	ASN	A	99	18.738	19.348	72.094	1.00	13.58
496	N	ALA	A	100	18.458	18.971	74.292	1.00	14.19
497	CA	ALA	A	100	19.820	18.500	74.513	1.00	14.31
498	CB	ALA	A	100	20.459	19.173	75.760	1.00	13.05
499	C	ALA	A	100	19.790	16.976	74.606	1.00	14.94
500	O	ALA	A	100	18.783	16.370	74.953	1.00	14.98
501	N	SER	A	101	20.895	16.389	74.175	1.00	15.50

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
502	CA	SER	A	101	21.016	14.957	73.975	1.00	15.66
503	CB	SER	A	101	21.579	14.693	72.567	1.00	16.21
504	OG	SER	A	101	22.718	15.517	72.313	1.00	16.66
505	C	SER	A	101	21.962	14.370	74.974	1.00	15.49
506	O	SER	A	101	22.069	13.147	75.053	1.00	16.60
507	N	ASN	A	102	22.645	15.230	75.730	1.00	14.55
508	CA	ASN	A	102	23.762	14.818	76.607	1.00	14.22
509	CB	ASN	A	102	24.941	14.341	75.746	1.00	13.75
510	CG	ASN	A	102	25.844	13.386	76.457	1.00	12.45
511	OD1	ASN	A	102	25.987	13.396	77.681	1.00	10.24
512	ND2	ASN	A	102	26.483	12.554	75.685	1.00	13.73
513	C	ASN	A	102	24.249	15.924	77.605	1.00	13.76
514	O	ASN	A	102	24.018	17.132	77.385	1.00	13.41
515	N	TYR	A	103	24.869	15.490	78.716	1.00	13.13
516	CA	TYR	A	103	25.297	16.399	79.773	1.00	12.85
517	CB	TYR	A	103	24.410	16.238	81.018	1.00	12.57
518	CG	TYR	A	103	24.407	14.816	81.583	1.00	13.86
519	CD1	TYR	A	103	25.227	14.437	82.688	1.00	13.68
520	CE1	TYR	A	103	25.209	13.081	83.171	1.00	13.35
521	CZ	TYR	A	103	24.370	12.119	82.547	1.00	13.41
522	OH	TYR	A	103	24.296	10.817	82.915	1.00	14.37
523	CE2	TYR	A	103	23.575	12.466	81.497	1.00	15.78
524	CD2	TYR	A	103	23.598	13.836	81.004	1.00	15.40
525	C	TYR	A	103	26.736	16.165	80.163	1.00	12.91
526	O	TYR	A	103	27.384	15.196	79.764	1.00	13.08
527	N	GLY	A	104	27.229	17.094	80.968	1.00	12.92
528	CA	GLY	A	104	28.501	16.956	81.651	1.00	13.22
529	C	GLY	A	104	28.472	17.803	82.917	1.00	13.37
530	O	GLY	A	104	27.844	18.844	82.927	1.00	13.85
531	N	LEU	A	105	29.133	17.340	83.981	1.00	13.56
532	CA	LEU	A	105	29.035	17.932	85.312	1.00	12.93
533	CB	LEU	A	105	28.426	16.952	86.302	1.00	13.61
534	CG	LEU	A	105	27.836	17.433	87.636	1.00	12.41
535	CD1	LEU	A	105	28.788	18.286	88.308	1.00	12.64
536	CD2	LEU	A	105	26.519	18.146	87.486	1.00	11.21
537	C	LEU	A	105	30.427	18.233	85.717	1.00	13.12
538	O	LEU	A	105	31.345	17.394	85.552	1.00	12.33
539	N	SER	A	106	30.585	19.455	86.219	1.00	13.17
540	CA	SER	A	106	31.879	19.975	86.520	1.00	13.66
541	CB	SER	A	106	31.828	21.509	86.685	1.00	13.46
542	OG	SER	A	106	31.832	21.947	88.032	1.00	15.39
543	C	SER	A	106	32.367	19.246	87.760	1.00	14.46
544	O	SER	A	106	31.572	18.980	88.661	1.00	13.56
545	N	PRO	A	107	33.655	18.867	87.787	1.00	15.93
546	CA	PRO	A	107	34.247	18.305	89.013	1.00	16.98
547	CB	PRO	A	107	35.728	18.637	88.875	1.00	16.91
548	CG	PRO	A	107	35.957	18.565	87.370	1.00	16.95
549	CD	PRO	A	107	34.629	18.874	86.669	1.00	15.40
550	C	PRO	A	107	33.656	18.923	90.261	1.00	17.96
551	O	PRO	A	107	33.230	18.178	91.116	1.00	18.74
552	N	ASP	A	108	33.098	20.252	90.376	1.00	19.13

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
553	CA	ASP	A	108	32.765	21.468	91.089	1.00	20.26
554	CB	ASP	A	108	33.944	22.428	90.991	1.00	21.23
555	CG	ASP	A	108	33.466	23.932	91.000	1.00	25.39
556	OD1	ASP	A	108	34.321	24.861	91.194	1.00	28.11
557	OD2	ASP	A	108	32.264	24.265	90.751	1.00	31.18
558	C	ASP	A	108	31.387	22.057	90.738	1.00	19.65
559	O	ASP	A	108	31.200	23.264	90.683	1.00	20.13
560	N	ARG	A	109	30.808	20.609	90.722	1.00	18.09
561	CA	ARG	A	109	29.354	20.504	90.844	1.00	15.99
562	CB	ARG	A	109	29.006	19.645	92.034	1.00	16.01
563	CG	ARG	A	109	29.645	18.259	92.036	1.00	14.39
564	CD	ARG	A	109	29.166	17.394	93.174	1.00	12.88
565	NE	ARG	A	109	29.938	16.159	93.271	1.00	11.09
566	CZ	ARG	A	109	29.522	15.046	93.859	1.00	8.03
567	NH1	ARG	A	109	30.324	13.987	93.906	1.00	5.18
568	NH2	ARG	A	109	28.312	14.975	94.381	1.00	7.36
569	C	ARG	A	109	28.545	21.757	90.922	1.00	15.53
570	O	ARG	A	109	27.329	21.659	91.050	1.00	15.26
571	N	GLN	A	110	29.203	22.909	90.796	1.00	14.87
572	CA	GLN	A	110	28.538	24.189	90.634	1.00	14.35
573	CB	GLN	A	110	29.570	25.311	90.785	1.00	14.65
574	CG	GLN	A	110	30.301	25.503	92.143	1.00	15.66
575	CD	GLN	A	110	31.191	26.779	92.102	1.00	17.10
576	OE1	GLN	A	110	30.709	27.853	91.729	1.00	16.95
577	NE2	GLN	A	110	32.475	26.643	92.439	1.00	17.28
578	C	GLN	A	110	27.896	24.341	89.216	1.00	13.99
579	O	GLN	A	110	26.981	25.147	89.007	1.00	13.35
580	N	PHE	A	111	28.414	23.582	88.244	1.00	13.37
581	CA	PHE	A	111	27.998	23.676	86.844	1.00	13.26
582	CB	PHE	A	111	29.081	24.436	86.047	1.00	13.13
583	CG	PHE	A	111	29.356	25.820	86.591	1.00	14.25
584	CD1	PHE	A	111	30.260	26.010	87.636	1.00	14.17
585	CE1	PHE	A	111	30.498	27.280	88.161	1.00	13.78
586	CZ	PHE	A	111	29.825	28.366	87.641	1.00	14.17
587	CE2	PHE	A	111	28.915	28.185	86.603	1.00	13.77
588	CD2	PHE	A	111	28.679	26.927	86.092	1.00	13.81
589	C	PHE	A	111	27.683	22.304	86.170	1.00	12.97
590	O	PHE	A	111	28.167	21.191	86.587	1.00	12.11
591	N	VAL	A	112	26.858	22.424	85.117	1.00	12.61
592	CA	VAL	A	112	26.622	21.323	84.170	1.00	12.28
593	CB	VAL	A	112	25.289	20.531	84.531	1.00	12.34
594	CG1	VAL	A	112	24.121	21.460	84.677	1.00	10.65
595	CG2	VAL	A	112	25.025	19.354	83.519	1.00	11.02
596	C	VAL	A	112	26.641	21.818	82.703	1.00	12.23
597	O	VAL	A	112	26.043	22.856	82.413	1.00	11.92
598	N	TYR	A	113	27.346	21.113	81.801	1.00	12.03
599	CA	TYR	A	113	27.283	21.407	80.332	1.00	12.24
600	CB	TYR	A	113	28.606	21.149	79.496	1.00	12.14
601	CG	TYR	A	113	29.107	19.695	79.118	1.00	12.30
602	CD1	TYR	A	113	30.470	19.303	79.352	1.00	14.32
603	CE1	TYR	A	113	30.997	17.995	78.971	1.00	14.18

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
604	CZ	TYR	A	113	30.152	17.100	78.375	1.00	14.48
605	OH	TYR	A	113	30.565	15.827	78.027	1.00	17.08
606	CE2	TYR	A	113	28.809	17.485	78.124	1.00	15.47
607	CD2	TYR	A	113	28.304	18.774	78.497	1.00	11.37
608	C	TYR	A	113	26.117	20.636	79.788	1.00	11.99
609	O	TYR	A	113	25.852	19.553	80.243	1.00	12.39
610	N	LEU	A	114	25.411	21.237	78.850	1.00	11.94
611	CA	LEU	A	114	24.291	20.621	78.176	1.00	11.95
612	CB	LEU	A	114	22.991	21.371	78.520	1.00	12.02
613	CG	LEU	A	114	22.389	21.212	79.927	1.00	11.16
614	CD1	LEU	A	114	23.175	21.912	81.011	1.00	10.15
615	CD2	LEU	A	114	20.997	21.778	79.924	1.00	11.01
616	C	LEU	A	114	24.601	20.735	76.678	1.00	12.36
617	O	LEU	A	114	24.698	21.852	76.123	1.00	12.64
618	N	GLU	A	115	24.798	19.588	76.026	1.00	12.26
619	CA	GLU	A	115	25.059	19.559	74.588	1.00	12.04
620	CB	GLU	A	115	26.288	18.680	74.262	1.00	12.26
621	CG	GLU	A	115	26.095	17.477	73.373	1.00	13.15
622	CD	GLU	A	115	27.280	16.518	73.410	1.00	13.38
623	OE1	GLU	A	115	28.416	16.847	73.839	1.00	11.20
624	OE2	GLU	A	115	27.056	15.393	72.969	1.00	15.02
625	C	GLU	A	115	23.762	19.253	73.783	1.00	12.16
626	O	GLU	A	115	23.063	18.300	74.087	1.00	11.12
627	N	SER	A	116	23.455	20.169	72.827	1.00	11.48
628	CA	SER	A	116	22.432	20.035	71.783	1.00	11.21
629	CB	SER	A	116	21.298	20.986	72.125	1.00	11.81
630	OG	SER	A	116	21.771	22.319	72.186	1.00	12.07
631	C	SER	A	116	22.991	20.424	70.374	1.00	10.73
632	O	SER	A	116	24.182	20.772	70.262	1.00	9.85
633	N	ASP	A	117	22.131	20.383	69.328	1.00	10.60
634	CA	ASP	A	117	22.559	20.422	67.904	1.00	10.26
635	CB	ASP	A	117	22.823	21.849	67.476	1.00	9.89
636	CG	ASP	A	117	21.877	22.869	68.113	1.00	10.31
637	OD1	ASP	A	117	20.669	22.933	67.750	1.00	8.52
638	OD2	ASP	A	117	22.298	23.687	68.961	1.00	10.56
639	C	ASP	A	117	23.835	19.528	67.587	1.00	11.05
640	O	ASP	A	117	24.812	19.971	67.024	1.00	10.82
641	N	TYR	A	118	23.828	18.265	67.992	1.00	11.51
642	CA	TYR	A	118	24.853	17.300	67.588	1.00	12.13
643	CB	TYR	A	118	24.609	15.993	68.366	1.00	11.94
644	CG	TYR	A	118	25.371	14.754	67.954	1.00	13.22
645	CD1	TYR	A	118	24.839	13.869	67.020	1.00	15.77
646	CE1	TYR	A	118	25.524	12.699	66.695	1.00	15.66
647	CZ	TYR	A	118	26.759	12.415	67.296	1.00	15.35
648	OH	TYR	A	118	27.414	11.254	66.964	1.00	20.05
649	CE2	TYR	A	118	27.275	13.230	68.260	1.00	15.77
650	CD2	TYR	A	118	26.592	14.404	68.583	1.00	15.09
651	C	TYR	A	118	24.811	17.013	66.074	1.00	13.14
652	O	TYR	A	118	23.800	16.518	65.579	1.00	13.13
653	N	SER	A	119	25.904	17.342	65.369	1.00	13.72
654	CA	SER	A	119	26.209	16.819	64.019	1.00	14.52

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
655	CB	SER	A	119	26.536	17.957	62.977	1.00	14.86
656	OG	SER	A	119	27.907	17.913	62.448	1.00	17.94
657	C	SER	A	119	27.387	15.859	64.084	1.00	14.32
658	O	SER	A	119	28.435	16.194	64.603	1.00	14.35
659	N	LYS	A	120	27.226	14.684	63.494	1.00	14.29
660	CA	LYS	A	120	28.328	13.755	63.380	1.00	13.28
661	CB	LYS	A	120	27.766	12.401	63.005	1.00	13.10
662	CG	LYS	A	120	28.754	11.273	63.090	1.00	11.85
663	CD	LYS	A	120	28.020	9.890	63.203	1.00	8.90
664	CE	LYS	A	120	29.080	8.748	63.463	1.00	12.56
665	NZ	LYS	A	120	29.707	8.547	62.108	1.00	10.58
666	C	LYS	A	120	29.312	14.196	62.281	1.00	13.61
667	O	LYS	A	120	28.876	14.606	61.206	1.00	14.34
668	N	LEU	A	121	30.614	14.088	62.538	1.00	13.10
669	CA	LEU	A	121	31.570	13.996	61.476	1.00	13.22
670	CB	LEU	A	121	32.660	15.016	61.749	1.00	12.73
671	CG	LEU	A	121	33.693	15.410	60.690	1.00	14.73
672	CD1	LEU	A	121	33.058	16.004	59.488	1.00	10.38
673	CD2	LEU	A	121	34.730	16.428	61.253	1.00	15.45
674	C	LEU	A	121	32.071	12.521	61.329	1.00	13.24
675	O	LEU	A	121	31.396	11.695	60.698	1.00	14.30
676	N	TRP	A	122	33.230	12.152	61.860	1.00	12.46
677	CA	TRP	A	122	33.774	10.800	61.572	1.00	13.16
678	CB	TRP	A	122	35.285	10.867	61.341	1.00	12.39
679	CG	TRP	A	122	35.755	11.989	60.271	1.00	12.34
680	CD1	TRP	A	122	36.766	12.902	60.448	1.00	12.94
681	NE1	TRP	A	122	36.945	13.643	59.314	1.00	12.95
682	CE2	TRP	A	122	36.014	13.260	58.384	1.00	13.63
683	CD2	TRP	A	122	35.269	12.194	58.943	1.00	12.10
684	CE3	TRP	A	122	34.225	11.632	58.176	1.00	14.71
685	CZ3	TRP	A	122	33.973	12.127	56.872	1.00	16.79
686	CH2	TRP	A	122	34.748	13.197	56.342	1.00	17.41
687	CZ2	TRP	A	122	35.760	13.772	57.083	1.00	15.31
688	C	TRP	A	122	33.351	9.724	62.630	1.00	13.37
689	O	TRP	A	122	32.257	9.786	63.106	1.00	13.82
690	N	ARG	A	123	34.161	8.730	62.987	1.00	13.95
691	CA	ARG	A	123	33.683	7.757	63.943	1.00	14.68
692	CB	ARG	A	123	34.658	6.584	64.148	1.00	15.15
693	CG	ARG	A	123	34.006	5.376	64.884	1.00	14.90
694	CD	ARG	A	123	34.989	4.298	65.090	1.00	21.01
695	NE	ARG	A	123	35.344	3.792	63.800	1.00	25.96
696	CZ	ARG	A	123	34.589	2.922	63.155	1.00	27.95
697	NH1	ARG	A	123	33.497	2.426	63.727	1.00	31.36
698	NH2	ARG	A	123	34.947	2.498	61.952	1.00	24.55
699	C	ARG	A	123	33.363	8.361	65.308	1.00	15.78
700	O	ARG	A	123	32.293	8.124	65.869	1.00	15.75
701	N	TYR	A	124	34.303	9.111	65.851	1.00	15.22
702	CA	TYR	A	124	34.110	9.701	67.155	1.00	14.18
703	CB	TYR	A	124	35.283	9.313	68.028	1.00	14.00
704	CG	TYR	A	124	35.716	7.854	68.004	1.00	14.03
705	CD1	TYR	A	124	35.127	6.898	68.793	1.00	13.67

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
706	CE1	TYR	A	124	35.619	5.527	68.770	1.00	17.10
707	CZ	TYR	A	124	36.709	5.211	67.932	1.00	15.79
708	OH	TYR	A	124	37.298	3.964	67.792	1.00	13.31
709	CE2	TYR	A	124	37.261	6.210	67.176	1.00	14.47
710	CD2	TYR	A	124	36.781	7.478	67.221	1.00	13.46
711	C	TYR	A	124	33.925	11.227	67.128	1.00	14.58
712	O	TYR	A	124	33.203	11.775	67.936	1.00	15.31
713	N	SER	A	125	34.537	11.922	66.180	1.00	13.19
714	CA	SER	A	125	34.353	13.386	66.089	1.00	12.18
715	CB	SER	A	125	35.313	14.116	65.099	1.00	12.42
716	OG	SER	A	125	35.430	13.442	63.875	1.00	12.72
717	C	SER	A	125	32.923	13.717	65.787	1.00	11.13
718	O	SER	A	125	32.128	12.877	65.388	1.00	11.13
719	N	TYR	A	126	32.600	14.936	66.102	1.00	9.76
720	CA	TYR	A	126	31.252	15.439	66.045	1.00	9.29
721	CB	TYR	A	126	30.183	14.511	66.743	1.00	8.45
722	CG	TYR	A	126	30.205	14.551	68.271	1.00	7.02
723	CD1	TYR	A	126	29.699	15.662	68.972	1.00	6.45
724	CE1	TYR	A	126	29.734	15.742	70.339	1.00	6.81
725	CZ	TYR	A	126	30.291	14.698	71.086	1.00	6.54
726	OH	TYR	A	126	30.274	14.824	72.469	1.00	2.00
727	CE2	TYR	A	126	30.819	13.605	70.433	1.00	6.23
728	CD2	TYR	A	126	30.767	13.526	69.000	1.00	2.77
729	C	TYR	A	126	31.338	16.784	66.699	1.00	9.88
730	O	TYR	A	126	32.382	17.222	67.214	1.00	10.67
731	N	THR	A	127	30.185	17.396	66.725	1.00	10.50
732	CA	THR	A	127	30.066	18.792	66.792	1.00	11.23
733	CB	THR	A	127	30.151	19.269	65.344	1.00	11.87
734	OG1	THR	A	127	31.518	19.645	65.111	1.00	13.79
735	CG2	THR	A	127	29.235	20.504	65.042	1.00	11.59
736	C	THR	A	127	28.728	19.128	67.429	1.00	11.84
737	O	THR	A	127	27.659	18.468	67.208	1.00	12.95
738	N	ALA	A	128	28.777	20.197	68.204	1.00	11.55
739	CA	ALA	A	128	27.690	20.480	69.088	1.00	11.51
740	CB	ALA	A	128	27.764	19.494	70.329	1.00	11.47
741	C	ALA	A	128	27.753	21.909	69.528	1.00	11.50
742	O	ALA	A	128	28.761	22.599	69.332	1.00	11.30
743	N	THR	A	129	26.629	22.306	70.117	1.00	11.72
744	CA	THR	A	129	26.457	23.518	70.918	1.00	11.98
745	CB	THR	A	129	25.131	24.085	70.547	1.00	11.58
746	OG1	THR	A	129	25.133	24.382	69.141	1.00	13.93
747	CG2	THR	A	129	24.871	25.383	71.291	1.00	11.83
748	C	THR	A	129	26.472	23.209	72.452	1.00	11.81
749	O	THR	A	129	25.831	22.245	72.935	1.00	12.46
750	N	TYR	A	130	27.193	24.027	73.210	1.00	11.22
751	CA	TYR	A	130	27.254	23.849	74.646	1.00	10.53
752	CB	TYR	A	130	28.674	23.570	75.088	1.00	10.01
753	CG	TYR	A	130	29.122	22.258	74.579	1.00	9.29
754	CD1	TYR	A	130	29.486	22.117	73.264	1.00	10.18
755	CE1	TYR	A	130	29.884	20.903	72.742	1.00	10.15
756	CZ	TYR	A	130	29.933	19.781	73.558	1.00	11.94

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
757	OH	TYR	A	130	30.344	18.550	73.018	1.00	12.11
758	CE2	TYR	A	130	29.564	19.920	74.902	1.00	10.26
759	CD2	TYR	A	130	29.145	21.151	75.387	1.00	8.84
760	C	TYR	A	130	26.668	25.085	75.340	1.00	10.84
761	O	TYR	A	130	27.003	26.243	75.005	1.00	11.03
762	N	TYR	A	131	25.705	24.813	76.229	1.00	10.72
763	CA	TYR	A	131	25.214	25.778	77.184	1.00	10.52
764	CB	TYR	A	131	23.681	26.000	77.106	1.00	10.32
765	CG	TYR	A	131	23.023	26.165	75.750	1.00	10.05
766	CD1	TYR	A	131	22.794	25.067	74.922	1.00	10.98
767	CE1	TYR	A	131	22.113	25.234	73.660	1.00	11.53
768	CZ	TYR	A	131	21.667	26.492	73.275	1.00	10.61
769	OH	TYR	A	131	21.019	26.626	72.056	1.00	14.25
770	CE2	TYR	A	131	21.866	27.568	74.107	1.00	9.11
771	CD2	TYR	A	131	22.531	27.409	75.327	1.00	9.68
772	C	TYR	A	131	25.597	25.307	78.600	1.00	10.32
773	O	TYR	A	131	25.715	24.102	78.925	1.00	9.69
774	N	ILE	A	132	25.790	26.300	79.439	1.00	10.36
775	CA	ILE	A	132	26.180	26.080	80.792	1.00	10.70
776	CB	ILE	A	132	27.558	26.738	81.013	1.00	10.23
777	CG1	ILE	A	132	28.614	25.977	80.199	1.00	9.33
778	CD1	ILE	A	132	29.486	26.835	79.367	1.00	11.17
779	CG2	ILE	A	132	27.975	26.748	82.482	1.00	9.20
780	C	ILE	A	132	25.036	26.567	81.681	1.00	12.08
781	O	ILE	A	132	24.498	27.640	81.491	1.00	12.65
782	N	TYR	A	133	24.625	25.709	82.609	1.00	13.97
783	CA	TYR	A	133	23.523	25.983	83.539	1.00	15.69
784	CB	TYR	A	133	22.434	24.911	83.374	1.00	16.18
785	CG	TYR	A	133	21.229	25.079	84.260	1.00	17.06
786	CD1	TYR	A	133	20.945	24.129	85.230	1.00	18.33
787	CE1	TYR	A	133	19.849	24.254	86.060	1.00	19.67
788	CZ	TYR	A	133	19.017	25.323	85.919	1.00	17.97
789	OH	TYR	A	133	17.990	25.359	86.783	1.00	19.01
790	CE2	TYR	A	133	19.257	26.300	84.970	1.00	17.83
791	CD2	TYR	A	133	20.371	26.171	84.135	1.00	18.15
792	C	TYR	A	133	24.096	26.046	84.974	1.00	16.11
793	O	TYR	A	133	24.603	25.037	85.555	1.00	15.92
794	N	ASP	A	134	24.054	27.272	85.502	1.00	16.54
795	CA	ASP	A	134	24.669	27.591	86.777	1.00	16.91
796	CB	ASP	A	134	24.874	29.090	86.935	1.00	17.12
797	CG	ASP	A	134	25.488	29.465	88.286	1.00	18.52
798	OD1	ASP	A	134	25.397	30.662	88.643	1.00	21.14
799	OD2	ASP	A	134	26.069	28.650	89.046	1.00	18.91
800	C	ASP	A	134	23.719	27.084	87.822	1.00	16.97
801	O	ASP	A	134	22.576	27.570	87.948	1.00	17.03
802	N	LEU	A	135	24.238	26.135	88.591	1.00	16.73
803	CA	LEU	A	135	23.439	25.183	89.325	1.00	16.63
804	CB	LEU	A	135	24.170	23.860	89.258	1.00	16.31
805	CG	LEU	A	135	23.308	22.621	89.388	1.00	16.75
806	CD1	LEU	A	135	22.574	22.267	88.091	1.00	14.59
807	CD2	LEU	A	135	24.242	21.496	89.855	1.00	18.84

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
808	C	LEU	A	135	23.070	25.554	90.790	1.00	16.63
809	O	LEU	A	135	22.406	24.771	91.446	1.00	16.81
810	N	SER	A	136	23.462	26.733	91.302	1.00	16.38
811	CA	SER	A	136	22.886	27.212	92.564	1.00	15.86
812	CB	SER	A	136	23.909	27.883	93.511	1.00	15.83
813	OG	SER	A	136	25.218	27.879	92.994	1.00	13.86
814	C	SER	A	136	21.730	28.154	92.250	1.00	15.88
815	O	SER	A	136	20.867	28.379	93.092	1.00	15.66
816	N	ASN	A	137	21.706	28.700	91.037	1.00	15.85
817	CA	ASN	A	137	20.771	29.798	90.721	1.00	16.27
818	CB	ASN	A	137	21.568	30.953	90.116	1.00	16.19
819	CG	ASN	A	137	22.611	31.489	91.095	1.00	15.22
820	OD1	ASN	A	137	23.803	31.170	91.018	1.00	12.53
821	ND2	ASN	A	137	22.142	32.267	92.064	1.00	14.67
822	C	ASN	A	137	19.584	29.366	89.856	1.00	16.58
823	O	ASN	A	137	18.507	29.978	89.882	1.00	16.23
824	N	GLY	A	138	19.795	28.266	89.127	1.00	16.89
825	CA	GLY	A	138	18.730	27.581	88.418	1.00	17.29
826	C	GLY	A	138	18.302	28.355	87.189	1.00	17.49
827	O	GLY	A	138	17.143	28.240	86.715	1.00	17.79
828	N	GLU	A	139	19.255	29.155	86.692	1.00	17.28
829	CA	GLU	A	139	19.076	30.017	85.509	1.00	16.72
830	CB	GLU	A	139	18.659	31.490	85.894	1.00	16.19
831	CG	GLU	A	139	17.148	31.779	85.797	1.00	15.30
832	CD	GLU	A	139	16.655	33.001	86.606	1.00	14.25
833	OE1	GLU	A	139	16.833	33.059	87.839	1.00	13.44
834	OE2	GLU	A	139	16.043	33.905	86.015	1.00	13.32
835	C	GLU	A	139	20.413	29.908	84.727	1.00	16.50
836	O	GLU	A	139	21.492	29.857	85.349	1.00	16.18
837	N	PHE	A	140	20.312	29.832	83.387	1.00	16.05
838	CA	PHE	A	140	21.450	29.587	82.488	1.00	15.44
839	CB	PHE	A	140	20.948	29.474	81.055	1.00	15.20
840	CG	PHE	A	140	20.418	28.095	80.697	1.00	14.33
841	CD1	PHE	A	140	21.308	27.007	80.533	1.00	12.29
842	CE1	PHE	A	140	20.830	25.737	80.197	1.00	9.98
843	CZ	PHE	A	140	19.433	25.534	80.024	1.00	11.72
844	CE2	PHE	A	140	18.525	26.611	80.191	1.00	10.86
845	CD2	PHE	A	140	19.030	27.883	80.515	1.00	12.91
846	C	PHE	A	140	22.486	30.684	82.570	1.00	15.56
847	O	PHE	A	140	22.160	31.789	82.952	1.00	16.20
848	N	VAL	A	141	23.739	30.392	82.246	1.00	15.66
849	CA	VAL	A	141	24.791	31.419	82.321	1.00	16.09
850	CB	VAL	A	141	26.290	30.833	82.320	1.00	16.40
851	CG1	VAL	A	141	27.340	31.975	82.424	1.00	16.39
852	CG2	VAL	A	141	26.526	29.833	83.418	1.00	14.57
853	C	VAL	A	141	24.632	32.405	81.141	1.00	16.54
854	O	VAL	A	141	24.955	32.062	79.988	1.00	15.94
855	N	ARG	A	142	24.085	33.602	81.448	1.00	17.41
856	CA	ARG	A	142	24.133	34.803	80.567	1.00	17.56
857	CB	ARG	A	142	22.955	35.792	80.828	1.00	17.94
858	CG	ARG	A	142	21.671	35.460	80.039	1.00	18.50

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
859	CD	ARG	A	142	21.327	33.942	80.029	1.00	17.49
860	NE	ARG	A	142	19.894	33.702	79.919	1.00	18.05
861	CZ	ARG	A	142	19.313	32.834	79.097	1.00	18.90
862	NH1	ARG	A	142	20.018	32.057	78.276	1.00	20.45
863	NH2	ARG	A	142	17.997	32.724	79.101	1.00	18.60
864	C	ARG	A	142	25.486	35.479	80.863	1.00	17.37
865	O	ARG	A	142	25.718	36.037	81.948	1.00	18.02
866	N	GLY	A	143	26.401	35.359	79.915	1.00	16.48
867	CA	GLY	A	143	27.710	35.926	80.084	1.00	16.19
868	C	GLY	A	143	28.320	35.895	78.708	1.00	15.81
869	O	GLY	A	143	27.643	36.160	77.709	1.00	16.28
870	N	ASN	A	144	29.583	35.504	78.647	1.00	15.01
871	CA	ASN	A	144	30.369	35.687	77.432	1.00	14.52
872	CB	ASN	A	144	31.788	36.080	77.796	1.00	14.23
873	CG	ASN	A	144	31.896	37.524	77.988	1.00	12.58
874	OD1	ASN	A	144	31.223	38.291	77.300	1.00	7.95
875	ND2	ASN	A	144	32.695	37.927	78.944	1.00	13.26
876	C	ASN	A	144	30.347	34.482	76.538	1.00	14.36
877	O	ASN	A	144	31.381	33.843	76.293	1.00	14.40
878	N	GLU	A	145	29.148	34.243	76.009	1.00	14.24
879	CA	GLU	A	145	28.732	32.916	75.563	1.00	13.77
880	CB	GLU	A	145	27.335	32.947	74.926	1.00	14.30
881	CG	GLU	A	145	26.183	33.338	75.858	1.00	16.73
882	CD	GLU	A	145	24.890	33.576	75.083	1.00	19.38
883	OE1	GLU	A	145	23.946	34.195	75.646	1.00	18.10
884	OE2	GLU	A	145	24.836	33.131	73.888	1.00	21.87
885	C	GLU	A	145	29.717	32.244	74.597	1.00	12.61
886	O	GLU	A	145	30.273	32.844	73.665	1.00	12.35
887	N	LEU	A	146	29.928	30.974	74.862	1.00	11.53
888	CA	LEU	A	146	30.552	30.089	73.923	1.00	10.62
889	CB	LEU	A	146	30.256	28.646	74.348	1.00	10.66
890	CG	LEU	A	146	30.957	28.136	75.618	1.00	9.79
891	CD1	LEU	A	146	30.418	26.734	75.951	1.00	9.13
892	CD2	LEU	A	146	32.485	28.145	75.434	1.00	8.23
893	C	LEU	A	146	30.056	30.299	72.498	1.00	10.26
894	O	LEU	A	146	28.894	30.544	72.247	1.00	10.07
895	N	PRO	A	147	30.968	30.171	71.563	1.00	10.22
896	CA	PRO	A	147	30.609	30.183	70.148	1.00	10.59
897	CB	PRO	A	147	31.953	30.351	69.460	1.00	10.58
898	CG	PRO	A	147	32.925	29.681	70.419	1.00	9.80
899	CD	PRO	A	147	32.416	29.993	71.773	1.00	9.47
900	C	PRO	A	147	30.041	28.865	69.718	1.00	11.44
901	O	PRO	A	147	30.514	27.768	70.150	1.00	11.02
902	N	ARG	A	148	29.067	28.933	68.816	1.00	12.00
903	CA	ARG	A	148	28.540	27.680	68.290	1.00	12.39
904	CB	ARG	A	148	27.012	27.566	68.452	1.00	12.26
905	CG	ARG	A	148	26.101	28.565	67.770	1.00	13.36
906	CD	ARG	A	148	24.662	28.315	68.193	1.00	15.04
907	NE	ARG	A	148	24.538	28.396	69.660	1.00	16.22
908	CZ	ARG	A	148	23.449	28.802	70.341	1.00	15.82
909	NH1	ARG	A	148	23.542	28.829	71.664	1.00	16.66

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
910	NH2	ARG	A	148	22.288	29.199	69.747	1.00	14.56
911	C	ARG	A	148	29.123	27.187	66.952	1.00	12.63
912	O	ARG	A	148	29.600	27.950	66.098	1.00	10.85
913	N	PRO	A	149	28.883	25.896	66.723	1.00	13.52
914	CA	PRO	A	149	29.865	24.876	66.416	1.00	13.41
915	CB	PRO	A	149	29.984	25.107	64.930	1.00	13.92
916	CG	PRO	A	149	28.319	25.322	64.640	1.00	14.02
917	CD	PRO	A	149	27.615	25.459	66.116	1.00	14.34
918	C	PRO	A	149	31.203	24.749	67.156	1.00	13.54
919	O	PRO	A	149	32.197	25.281	66.667	1.00	14.92
920	N	ILE	A	150	31.189	23.966	68.253	1.00	12.30
921	CA	ILE	A	150	32.364	23.499	68.993	1.00	10.32
922	CB	ILE	A	150	32.273	23.866	70.534	1.00	10.37
923	CG1	ILE	A	150	32.752	25.307	70.771	1.00	9.57
924	CD1	ILE	A	150	32.470	25.840	72.210	1.00	8.03
925	CG2	ILE	A	150	33.142	22.976	71.402	1.00	5.50
926	C	ILE	A	150	32.645	21.967	68.773	1.00	10.94
927	O	ILE	A	150	31.774	21.063	68.746	1.00	10.29
928	N	GLN	A	151	33.910	21.693	68.583	1.00	10.50
929	CA	GLN	A	151	34.289	20.351	68.338	1.00	10.93
930	CB	GLN	A	151	35.569	20.381	67.507	1.00	11.89
931	CG	GLN	A	151	35.260	20.824	66.037	1.00	13.54
932	CD	GLN	A	151	36.061	22.015	65.599	1.00	18.93
933	OE1	GLN	A	151	37.240	21.857	65.315	1.00	22.74
934	NE2	GLN	A	151	35.417	23.218	65.497	1.00	19.65
935	C	GLN	A	151	34.339	19.679	69.723	1.00	10.99
936	O	GLN	A	151	33.318	19.172	70.196	1.00	11.07
937	N	TYR	A	152	35.441	19.827	70.435	1.00	9.79
938	CA	TYR	A	152	35.589	19.192	71.726	1.00	9.29
939	CB	TYR	A	152	36.970	18.533	71.850	1.00	8.70
940	CG	TYR	A	152	37.154	17.774	73.125	1.00	11.43
941	CD1	TYR	A	152	38.224	18.072	73.984	1.00	11.70
942	CE1	TYR	A	152	38.387	17.413	75.173	1.00	10.79
943	CZ	TYR	A	152	37.480	16.448	75.517	1.00	12.41
944	OH	TYR	A	152	37.651	15.799	76.711	1.00	11.53
945	CE2	TYR	A	152	36.386	16.167	74.702	1.00	12.36
946	CD2	TYR	A	152	36.243	16.799	73.510	1.00	10.40
947	C	TYR	A	152	35.426	20.174	72.821	1.00	8.96
948	O	TYR	A	152	35.732	21.356	72.696	1.00	8.21
949	N	LEU	A	153	34.950	19.670	73.929	1.00	8.94
950	CA	LEU	A	153	34.914	20.468	75.133	1.00	9.72
951	CB	LEU	A	153	33.666	21.363	75.152	1.00	9.03
952	CG	LEU	A	153	33.379	22.157	76.419	1.00	7.16
953	CD1	LEU	A	153	32.564	23.286	76.041	1.00	7.04
954	CD2	LEU	A	153	32.605	21.355	77.424	1.00	7.39
955	C	LEU	A	153	34.957	19.524	76.324	1.00	10.60
956	O	LEU	A	153	34.406	18.416	76.293	1.00	11.35
957	N	CYS	A	154	35.675	19.937	77.359	1.00	11.17
958	CA	CYS	A	154	35.631	19.224	78.612	1.00	11.25
959	CB	CYS	A	154	36.720	18.172	78.682	1.00	11.76
960	SG	CYS	A	154	38.293	18.847	78.211	1.00	14.03

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
961	C	CYS	A	154	35.850	20.202	79.713	1.00	10.71
962	O	CYS	A	154	36.097	21.378	79.483	1.00	10.97
963	N	TRP	A	155	35.778	19.688	80.925	1.00	10.79
964	CA	TRP	A	155	36.191	20.468	82.057	1.00	11.06
965	CB	TRP	A	155	35.180	20.264	83.155	1.00	10.28
966	CG	TRP	A	155	34.231	21.374	83.223	1.00	9.94
967	CD1	TRP	A	155	34.468	22.783	83.457	1.00	10.88
968	NE1	TRP	A	155	33.272	23.480	83.456	1.00	8.08
969	CE2	TRP	A	155	32.270	22.556	83.251	1.00	8.12
970	CD2	TRP	A	155	32.874	21.230	83.080	1.00	6.80
971	CE3	TRP	A	155	32.065	20.126	82.878	1.00	3.23
972	CZ3	TRP	A	155	30.754	20.309	82.811	1.00	3.74
973	CH2	TRP	A	155	30.173	21.605	82.966	1.00	6.67
974	CZ2	TRP	A	155	30.924	22.745	83.175	1.00	7.15
975	C	TRP	A	155	37.589	20.135	82.557	1.00	11.11
976	O	TRP	A	155	38.229	19.242	82.088	1.00	10.88
977	N	SER	A	156	38.042	20.894	83.534	1.00	12.18
978	CA	SER	A	156	39.161	20.455	84.348	1.00	13.18
979	CB	SER	A	156	39.660	21.598	85.215	1.00	12.34
980	OG	SER	A	156	38.668	22.588	85.294	1.00	12.21
981	C	SER	A	156	38.727	19.240	85.207	1.00	13.88
982	O	SER	A	156	37.546	18.986	85.434	1.00	12.74
983	N	PRO	A	157	39.690	18.421	85.588	1.00	15.44
984	CA	PRO	A	157	39.510	17.501	86.712	1.00	16.11
985	CB	PRO	A	157	40.817	16.714	86.715	1.00	16.22
986	CG	PRO	A	157	41.258	16.746	85.306	1.00	16.09
987	CD	PRO	A	157	40.973	18.167	84.904	1.00	16.08
988	C	PRO	A	157	39.307	18.192	88.053	1.00	16.44
989	O	PRO	A	157	38.963	17.459	88.983	1.00	17.52
990	N	VAL	A	158	39.530	19.509	88.170	1.00	16.49
991	CA	VAL	A	158	39.180	20.228	89.393	1.00	16.71
992	CB	VAL	A	158	40.403	20.353	90.371	1.00	16.57
993	CG1	VAL	A	158	39.989	20.906	91.773	1.00	18.58
994	CG2	VAL	A	158	41.113	18.996	90.571	1.00	16.16
995	C	VAL	A	158	38.463	21.581	89.101	1.00	17.14
996	O	VAL	A	158	38.781	22.331	88.159	1.00	17.37
997	N	GLY	A	159	37.460	21.854	89.934	1.00	17.41
998	CA	GLY	A	159	36.578	22.983	89.770	1.00	17.14
999	C	GLY	A	159	35.673	22.900	88.544	1.00	16.55
1000	O	GLY	A	159	34.905	21.957	88.321	1.00	15.31
1001	N	SER	A	160	35.806	23.951	87.750	1.00	16.11
1002	CA	SER	A	160	34.801	24.349	86.774	1.00	16.17
1003	CB	SER	A	160	33.703	25.096	87.506	1.00	15.86
1004	OG	SER	A	160	33.995	25.069	88.907	1.00	17.76
1005	C	SER	A	160	35.410	25.265	85.709	1.00	16.07
1006	O	SER	A	160	34.732	26.171	85.228	1.00	15.87
1007	N	LYS	A	161	36.686	24.989	85.380	1.00	15.92
1008	CA	LYS	A	161	37.486	25.647	84.346	1.00	15.46
1009	CB	LYS	A	161	38.965	25.799	84.766	1.00	15.46
1010	CG	LYS	A	161	39.124	26.413	86.164	1.00	17.24
1011	CD	LYS	A	161	40.453	27.165	86.411	1.00	21.95

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1012	CE	LYS	A	161	41.710	26.418	85.910	1.00	23.57
1013	NZ	LYS	A	161	42.753	26.169	86.980	1.00	24.44
1014	C	LYS	A	161	37.392	24.855	83.049	1.00	14.79
1015	O	LYS	A	161	37.559	23.595	83.015	1.00	14.49
1016	N	LEU	A	162	37.182	25.632	81.983	1.00	13.63
1017	CA	LEU	A	162	36.771	25.121	80.681	1.00	12.64
1018	CB	LEU	A	162	35.593	25.936	80.144	1.00	12.40
1019	CG	LEU	A	162	34.327	25.223	80.545	1.00	9.98
1020	CD1	LEU	A	162	33.198	26.086	80.170	1.00	7.37
1021	CD2	LEU	A	162	34.271	23.868	79.871	1.00	6.97
1022	C	LEU	A	162	37.853	25.086	79.611	1.00	12.38
1023	O	LEU	A	162	38.588	26.074	79.424	1.00	12.92
1024	N	ALA	A	163	37.910	23.956	78.901	1.00	10.32
1025	CA	ALA	A	163	38.772	23.847	77.747	1.00	9.69
1026	CB	ALA	A	163	39.904	22.779	77.990	1.00	9.12
1027	C	ALA	A	163	37.895	23.484	76.560	1.00	8.70
1028	O	ALA	A	163	37.121	22.590	76.628	1.00	9.42
1029	N	TYR	A	164	37.993	24.213	75.473	1.00	8.29
1030	CA	TYR	A	164	37.263	23.850	74.283	1.00	8.12
1031	CB	TYR	A	164	35.955	24.531	74.291	1.00	7.93
1032	CG	TYR	A	164	35.976	26.021	74.142	1.00	7.82
1033	CD1	TYR	A	164	35.640	26.617	72.931	1.00	7.37
1034	CE1	TYR	A	164	35.589	28.009	72.793	1.00	7.03
1035	CZ	TYR	A	164	35.862	28.802	73.871	1.00	6.70
1036	OH	TYR	A	164	35.789	30.160	73.737	1.00	8.47
1037	CE2	TYR	A	164	36.203	28.236	75.096	1.00	5.57
1038	CD2	TYR	A	164	36.254	26.854	75.234	1.00	7.58
1039	C	TYR	A	164	37.919	24.156	72.980	1.00	8.21
1040	O	TYR	A	164	38.603	25.177	72.833	1.00	7.60
1041	N	VAL	A	165	37.688	23.248	72.019	1.00	9.36
1042	CA	VAL	A	165	38.210	23.415	70.654	1.00	9.64
1043	CB	VAL	A	165	38.828	22.132	70.028	1.00	9.86
1044	CG1	VAL	A	165	39.299	22.440	68.615	1.00	8.01
1045	CG2	VAL	A	165	40.000	21.565	70.877	1.00	7.80
1046	C	VAL	A	165	37.120	23.979	69.753	1.00	9.75
1047	O	VAL	A	165	35.995	23.465	69.661	1.00	9.50
1048	N	TYR	A	166	37.500	25.078	69.117	1.00	10.36
1049	CA	TYR	A	166	36.676	25.767	68.170	1.00	10.50
1050	CB	TYR	A	166	36.146	26.975	68.832	1.00	9.79
1051	CG	TYR	A	166	35.338	27.826	67.917	1.00	9.30
1052	CD1	TYR	A	166	34.122	27.381	67.442	1.00	6.42
1053	CE1	TYR	A	166	33.342	28.204	66.615	1.00	8.78
1054	CZ	TYR	A	166	33.806	29.460	66.280	1.00	6.87
1055	OH	TYR	A	166	33.046	30.283	65.517	1.00	10.62
1056	CE2	TYR	A	166	35.013	29.901	66.735	1.00	8.03
1057	CD2	TYR	A	166	35.776	29.108	67.551	1.00	7.65
1058	C	TYR	A	166	37.398	26.180	66.887	1.00	11.53
1059	O	TYR	A	166	38.462	26.823	66.928	1.00	12.29
1060	N	GLN	A	167	36.767	25.850	65.758	1.00	12.10
1061	CA	GLN	A	167	37.344	26.065	64.450	1.00	12.86
1062	CB	GLN	A	167	37.035	27.500	63.971	1.00	13.63

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1063	CG	GLN	A	167	35.587	27.697	63.326	1.00	15.22
1064	CD	GLN	A	167	35.394	29.083	62.679	1.00	19.05
1065	OE1	GLN	A	167	34.634	29.227	61.698	1.00	20.45
1066	NE2	GLN	A	167	36.083	30.103	63.226	1.00	17.54
1067	C	GLN	A	167	38.841	25.726	64.511	1.00	12.78
1068	O	GLN	A	167	39.688	26.539	64.198	1.00	12.18
1069	N	ASN	A	168	39.132	24.512	64.989	1.00	12.64
1070	CA	ASN	A	168	40.505	23.948	65.036	1.00	12.77
1071	CB	ASN	A	168	41.114	23.877	63.634	1.00	12.77
1072	CG	ASN	A	168	40.521	22.771	62.785	1.00	14.48
1073	OD1	ASN	A	168	41.216	22.185	61.948	1.00	16.08
1074	ND2	ASN	A	168	39.234	22.489	62.981	1.00	15.27
1075	C	ASN	A	168	41.554	24.575	65.953	1.00	12.40
1076	O	ASN	A	168	42.715	24.255	65.846	1.00	12.34
1077	N	ASN	A	169	41.142	25.447	66.855	1.00	12.18
1078	CA	ASN	A	169	42.040	26.229	67.686	1.00	11.73
1079	CB	ASN	A	169	41.745	27.703	67.444	1.00	12.32
1080	CG	ASN	A	169	42.704	28.364	66.511	1.00	13.44
1081	OD1	ASN	A	169	42.312	29.253	65.778	1.00	13.56
1082	ND2	ASN	A	169	43.960	27.985	66.566	1.00	13.99
1083	C	ASN	A	169	41.681	25.941	69.155	1.00	11.39
1084	O	ASN	A	169	40.499	25.777	69.461	1.00	11.88
1085	N	ILE	A	170	42.642	25.935	70.086	1.00	10.98
1086	CA	ILE	A	170	42.299	25.770	71.501	1.00	10.05
1087	CB	ILE	A	170	43.395	25.048	72.305	1.00	9.84
1088	CG1	ILE	A	170	43.548	23.634	71.802	1.00	9.96
1089	CD1	ILE	A	170	44.530	22.772	72.608	1.00	9.30
1090	CG2	ILE	A	170	43.034	25.013	73.792	1.00	7.03
1091	C	ILE	A	170	41.913	27.099	72.163	1.00	10.48
1092	O	ILE	A	170	42.468	28.192	71.897	1.00	9.91
1093	N	TYR	A	171	40.938	26.979	73.048	1.00	10.63
1094	CA	TYR	A	171	40.451	28.129	73.760	1.00	10.39
1095	CB	TYR	A	171	39.086	28.469	73.219	1.00	10.01
1096	CG	TYR	A	171	39.121	29.404	72.051	1.00	9.84
1097	CD1	TYR	A	171	39.322	30.731	72.245	1.00	8.07
1098	CE1	TYR	A	171	39.311	31.610	71.211	1.00	6.78
1099	CZ	TYR	A	171	39.119	31.187	69.985	1.00	6.33
1100	OH	TYR	A	171	39.139	32.126	69.070	1.00	6.47
1101	CE2	TYR	A	171	38.875	29.901	69.706	1.00	7.97
1102	CD2	TYR	A	171	38.877	28.982	70.755	1.00	9.51
1103	C	TYR	A	171	40.377	27.670	75.203	1.00	10.29
1104	O	TYR	A	171	40.278	26.437	75.440	1.00	9.87
1105	N	LEU	A	172	40.410	28.631	76.150	1.00	9.58
1106	CA	LEU	A	172	40.296	28.314	77.589	1.00	9.56
1107	CB	LEU	A	172	41.694	28.151	78.166	1.00	8.98
1108	CG	LEU	A	172	41.891	28.287	79.660	1.00	9.55
1109	CD1	LEU	A	172	41.598	26.925	80.339	1.00	9.28
1110	CD2	LEU	A	172	43.328	28.882	79.999	1.00	5.44
1111	C	LEU	A	172	39.467	29.345	78.366	1.00	9.63
1112	O	LEU	A	172	39.677	30.536	78.199	1.00	9.77
1113	N	LYS	A	173	38.526	28.891	79.198	1.00	9.75

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1114	CA	LYS	A	173	37.596	29.785	79.928	1.00	10.17
1115	CB	LYS	A	173	36.116	29.417	79.655	1.00	10.38
1116	CG	LYS	A	173	35.196	30.455	78.909	1.00	9.48
1117	CD	LYS	A	173	33.716	29.936	78.847	1.00	8.40
1118	CE	LYS	A	173	32.693	30.954	78.409	1.00	7.04
1119	NZ	LYS	A	173	33.136	31.746	77.183	1.00	10.88
1120	C	LYS	A	173	37.878	29.601	81.406	1.00	10.66
1121	O	LYS	A	173	37.599	28.534	81.938	1.00	10.17
1122	N	GLN	A	174	38.417	30.639	82.067	1.00	11.71
1123	CA	GLN	A	174	38.855	30.556	83.488	1.00	12.19
1124	CB	GLN	A	174	39.473	31.899	83.960	1.00	12.71
1125	CG	GLN	A	174	40.732	31.726	84.832	1.00	13.71
1126	CD	GLN	A	174	41.752	30.847	84.143	1.00	14.60
1127	OE1	GLN	A	174	42.402	31.308	83.211	1.00	15.90
1128	NE2	GLN	A	174	41.849	29.562	84.544	1.00	14.07
1129	C	GLN	A	174	37.745	30.095	84.449	1.00	11.72
1130	O	GLN	A	174	37.887	29.105	85.153	1.00	11.21
1131	N	ARG	A	175	36.649	30.827	84.460	1.00	11.85
1132	CA	ARG	A	175	35.419	30.308	84.983	1.00	12.04
1133	CB	ARG	A	175	35.110	30.930	86.355	1.00	12.48
1134	CG	ARG	A	175	34.723	32.451	86.514	1.00	13.28
1135	CD	ARG	A	175	33.941	32.805	87.862	1.00	14.84
1136	NE	ARG	A	175	34.105	31.786	88.934	1.00	16.76
1137	CZ	ARG	A	175	33.233	30.772	89.273	1.00	15.95
1138	NH1	ARG	A	175	32.053	30.611	88.673	1.00	16.22
1139	NH2	ARG	A	175	33.554	29.912	90.247	1.00	13.83
1140	C	ARG	A	175	34.343	30.469	83.895	1.00	12.26
1141	O	ARG	A	175	34.606	31.095	82.881	1.00	12.42
1142	N	PRO	A	176	33.198	29.805	84.047	1.00	12.22
1143	CA	PRO	A	176	32.178	29.653	82.990	1.00	12.18
1144	CB	PRO	A	176	31.055	28.911	83.714	1.00	11.80
1145	CG	PRO	A	176	31.812	28.009	84.615	1.00	11.87
1146	CD	PRO	A	176	32.841	28.983	85.213	1.00	12.40
1147	C	PRO	A	176	31.584	30.830	82.244	1.00	12.74
1148	O	PRO	A	176	31.497	30.747	81.002	1.00	12.93
1149	N	GLY	A	177	31.128	31.852	82.950	1.00	13.13
1150	CA	GLY	A	177	30.612	33.012	82.272	1.00	13.90
1151	C	GLY	A	177	31.692	34.064	82.097	1.00	14.77
1152	O	GLY	A	177	31.432	35.237	82.380	1.00	14.96
1153	N	ASP	A	178	32.894	33.650	81.670	1.00	15.18
1154	CA	ASP	A	178	34.021	34.558	81.383	1.00	15.87
1155	CB	ASP	A	178	35.316	34.065	82.025	1.00	16.20
1156	CG	ASP	A	178	35.382	34.288	83.515	1.00	17.13
1157	OD1	ASP	A	178	34.838	35.292	84.038	1.00	16.64
1158	OD2	ASP	A	178	36.028	33.491	84.225	1.00	16.43
1159	C	ASP	A	178	34.373	34.622	79.893	1.00	16.19
1160	O	ASP	A	178	34.130	33.657	79.140	1.00	16.28
1161	N	PRO	A	179	35.041	35.716	79.496	1.00	16.37
1162	CA	PRO	A	179	35.678	35.800	78.188	1.00	16.34
1163	CB	PRO	A	179	36.524	37.060	78.284	1.00	16.18
1164	CG	PRO	A	179	35.833	37.902	79.232	1.00	17.16

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1165	CD	PRO	A	179	35.258	36.950	80.262	1.00	16.51
1166	C	PRO	A	179	36.582	34.589	77.998	1.00	16.40
1167	O	PRO	A	179	37.166	34.115	78.974	1.00	16.83
1168	N	PRO	A	180	36.676	34.071	76.780	1.00	15.86
1169	CA	PRO	A	180	37.535	32.940	76.540	1.00	15.28
1170	CB	PRO	A	180	36.968	32.368	75.240	1.00	15.73
1171	CG	PRO	A	180	35.698	33.113	74.983	1.00	16.02
1172	CD	PRO	A	180	35.989	34.468	75.541	1.00	15.89
1173	C	PRO	A	180	38.914	33.424	76.324	1.00	14.84
1174	O	PRO	A	180	39.093	34.544	75.831	1.00	15.04
1175	N	PHE	A	181	39.877	32.585	76.643	1.00	13.82
1176	CA	PHE	A	181	41.261	32.913	76.381	1.00	13.86
1177	CB	PHE	A	181	42.086	32.828	77.664	1.00	14.05
1178	CG	PHE	A	181	43.529	33.114	77.463	1.00	14.49
1179	CD1	PHE	A	181	44.014	34.408	77.590	1.00	14.78
1180	CE1	PHE	A	181	45.354	34.682	77.383	1.00	14.57
1181	CZ	PHE	A	181	46.224	33.666	77.052	1.00	14.67
1182	CE2	PHE	A	181	45.758	32.382	76.896	1.00	13.23
1183	CD2	PHE	A	181	44.409	32.096	77.109	1.00	13.84
1184	C	PHE	A	181	41.810	31.981	75.310	1.00	13.27
1185	O	PHE	A	181	41.871	30.754	75.509	1.00	13.81
1186	N	GLN	A	182	42.208	32.557	74.177	1.00	12.71
1187	CA	GLN	A	182	42.679	31.773	73.031	1.00	11.75
1188	CB	GLN	A	182	42.767	32.680	71.791	1.00	11.62
1189	CG	GLN	A	182	43.019	31.857	70.509	1.00	8.18
1190	CD	GLN	A	182	42.633	32.524	69.219	1.00	5.24
1191	OE1	GLN	A	182	42.953	31.963	68.194	1.00	5.41
1192	NE2	GLN	A	182	41.942	33.693	69.250	1.00	2.00
1193	C	GLN	A	182	44.042	31.117	73.241	1.00	11.86
1194	O	GLN	A	182	44.977	31.813	73.570	1.00	12.61
1195	N	ILE	A	183	44.206	29.816	73.010	1.00	11.88
1196	CA	ILE	A	183	45.576	29.233	73.159	1.00	12.01
1197	CB	ILE	A	183	45.559	27.811	73.744	1.00	11.95
1198	CG1	ILE	A	183	44.819	27.747	75.107	1.00	11.36
1199	CD1	ILE	A	183	45.362	28.636	76.232	1.00	12.57
1200	CG2	ILE	A	183	46.977	27.280	73.815	1.00	12.05
1201	C	ILE	A	183	46.395	29.214	71.867	1.00	12.11
1202	O	ILE	A	183	47.399	29.916	71.743	1.00	11.31
1203	N	THR	A	184	45.931	28.406	70.915	1.00	12.44
1204	CA	THR	A	184	46.464	28.418	69.537	1.00	12.68
1205	CB	THR	A	184	46.360	27.035	68.958	1.00	11.79
1206	OG1	THR	A	184	45.010	26.812	68.635	1.00	12.45
1207	CG2	THR	A	184	46.616	25.991	69.999	1.00	11.65
1208	C	THR	A	184	45.747	29.413	68.585	1.00	13.14
1209	O	THR	A	184	44.515	29.623	68.623	1.00	13.23
1210	N	PHE	A	185	46.536	29.984	67.697	1.00	14.09
1211	CA	PHE	A	185	45.999	30.909	66.683	1.00	15.41
1212	CB	PHE	A	185	46.639	32.334	66.822	1.00	15.60
1213	CG	PHE	A	185	46.460	32.968	68.195	1.00	15.69
1214	CD1	PHE	A	185	47.221	32.533	69.285	1.00	14.03
1215	CE1	PHE	A	185	47.070	33.114	70.566	1.00	14.34

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1216	CZ	PHE	A	185	46.139	34.157	70.766	1.00	15.92
1217	CE2	PHE	A	185	45.364	34.620	69.668	1.00	17.50
1218	CD2	PHE	A	185	45.530	34.015	68.385	1.00	17.05
1219	C	PHE	A	185	46.202	30.364	65.249	1.00	15.63
1220	O	PHE	A	185	45.875	31.062	64.270	1.00	15.35
1221	N	ASN	A	186	46.766	29.153	65.123	1.00	15.37
1222	CA	ASN	A	186	47.272	28.740	63.817	1.00	15.86
1223	CB	ASN	A	186	48.686	28.155	63.909	1.00	14.84
1224	CG	ASN	A	186	48.708	26.804	64.514	1.00	13.79
1225	OD1	ASN	A	186	47.703	26.332	65.044	1.00	12.50
1226	ND2	ASN	A	186	49.855	26.158	64.456	1.00	10.92
1227	C	ASN	A	186	46.275	27.838	63.076	1.00	16.95
1228	O	ASN	A	186	46.567	27.350	61.962	1.00	17.27
1229	N	GLY	A	187	45.075	27.725	63.670	1.00	17.63
1230	CA	GLY	A	187	44.086	26.701	63.349	1.00	17.57
1231	C	GLY	A	187	43.219	27.092	62.173	1.00	18.40
1232	O	GLY	A	187	42.717	28.258	62.102	1.00	18.22
1233	N	ARG	A	188	43.062	26.125	61.247	1.00	18.99
1234	CA	ARG	A	188	42.322	26.289	59.969	1.00	19.50
1235	CB	ARG	A	188	43.180	27.110	58.926	1.00	19.67
1236	CG	ARG	A	188	43.556	28.639	59.389	1.00	20.84
1237	CD	ARG	A	188	44.409	29.503	58.436	1.00	24.90
1238	NE	ARG	A	188	44.860	28.738	57.266	1.00	27.06
1239	CZ	ARG	A	188	45.081	29.227	56.036	1.00	27.45
1240	NH1	ARG	A	188	44.931	30.532	55.760	1.00	26.54
1241	NH2	ARG	A	188	45.477	28.377	55.073	1.00	25.86
1242	C	ARG	A	188	41.805	24.931	59.414	1.00	19.06
1243	O	ARG	A	188	42.545	23.955	59.376	1.00	19.35
1244	N	GLU	A	189	40.527	24.905	59.008	1.00	18.60
1245	CA	GLU	A	189	39.810	23.685	58.627	1.00	18.34
1246	CB	GLU	A	189	38.348	23.945	58.133	1.00	18.44
1247	CG	GLU	A	189	38.046	23.929	56.618	1.00	21.01
1248	CD	GLU	A	189	37.776	25.322	55.970	1.00	26.60
1249	OE1	GLU	A	189	37.672	26.366	56.645	1.00	31.18
1250	OE2	GLU	A	189	37.683	25.425	54.735	1.00	25.38
1251	C	GLU	A	189	40.608	22.814	57.680	1.00	17.54
1252	O	GLU	A	189	41.400	23.269	56.892	1.00	17.43
1253	N	ASN	A	190	40.443	21.523	57.865	1.00	17.29
1254	CA	ASN	A	190	41.115	20.503	57.075	1.00	16.64
1255	CB	ASN	A	190	40.420	20.349	55.708	1.00	16.61
1256	CG	ASN	A	190	39.195	19.485	55.797	1.00	19.21
1257	OD1	ASN	A	190	39.265	18.395	56.349	1.00	19.97
1258	ND2	ASN	A	190	38.066	19.955	55.262	1.00	18.70
1259	C	ASN	A	190	42.638	20.618	56.921	1.00	15.48
1260	O	ASN	A	190	43.188	20.016	55.998	1.00	15.04
1261	N	LYS	A	191	43.326	21.306	57.833	1.00	14.74
1262	CA	LYS	A	191	44.783	21.553	57.636	1.00	14.88
1263	CB	LYS	A	191	45.007	22.897	56.876	1.00	15.19
1264	CG	LYS	A	191	45.016	22.837	55.282	1.00	16.18
1265	CD	LYS	A	191	44.979	24.332	54.608	1.00	22.93
1266	CE	LYS	A	191	45.347	24.355	53.045	1.00	25.29

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1267	NZ	LYS	A	191	45.375	25.705	52.339	1.00	25.60
1268	C	LYS	A	191	45.595	21.512	58.962	1.00	14.64
1269	O	LYS	A	191	46.489	20.639	59.192	1.00	14.88
1270	N	ILE	A	192	45.239	22.444	59.842	1.00	13.52
1271	CA	ILE	A	192	45.906	22.618	61.120	1.00	12.38
1272	CB	ILE	A	192	46.429	24.104	61.271	1.00	12.82
1273	CG1	ILE	A	192	47.502	24.400	60.204	1.00	12.63
1274	CD1	ILE	A	192	48.631	23.325	60.135	1.00	12.75
1275	CG2	ILE	A	192	46.945	24.351	62.668	1.00	13.02
1276	C	ILE	A	192	44.877	22.309	62.155	1.00	11.01
1277	O	ILE	A	192	43.788	22.862	62.109	1.00	10.29
1278	N	PHE	A	193	45.244	21.431	63.088	1.00	10.02
1279	CA	PHE	A	193	44.322	20.869	64.049	1.00	9.24
1280	CB	PHE	A	193	44.107	19.388	63.694	1.00	9.10
1281	CG	PHE	A	193	43.259	19.118	62.442	1.00	8.90
1282	CD1	PHE	A	193	41.858	19.145	62.498	1.00	7.28
1283	CE1	PHE	A	193	41.047	18.805	61.361	1.00	7.26
1284	CZ	PHE	A	193	41.660	18.429	60.202	1.00	6.78
1285	CE2	PHE	A	193	43.100	18.430	60.128	1.00	6.82
1286	CD2	PHE	A	193	43.866	18.763	61.237	1.00	7.56
1287	C	PHE	A	193	44.880	20.918	65.498	1.00	9.12
1288	O	PHE	A	193	45.672	20.021	65.899	1.00	8.63
1289	N	ASN	A	194	44.454	21.913	66.290	1.00	8.20
1290	CA	ASN	A	194	44.766	21.930	67.749	1.00	7.46
1291	CB	ASN	A	194	45.177	23.323	68.247	1.00	6.48
1292	CG	ASN	A	194	46.115	24.038	67.294	1.00	5.66
1293	OD1	ASN	A	194	47.366	23.957	67.411	1.00	2.00
1294	ND2	ASN	A	194	45.510	24.827	66.371	1.00	4.57
1295	C	ASN	A	194	43.683	21.369	68.724	1.00	7.23
1296	O	ASN	A	194	42.561	21.889	68.834	1.00	6.18
1297	N	GLY	A	195	44.069	20.329	69.469	1.00	6.92
1298	CA	GLY	A	195	43.247	19.790	70.539	1.00	8.49
1299	C	GLY	A	195	42.233	18.747	70.080	1.00	9.66
1300	O	GLY	A	195	41.592	18.083	70.890	1.00	10.67
1301	N	ILE	A	196	42.039	18.632	68.775	1.00	9.95
1302	CA	ILE	A	196	41.422	17.453	68.214	1.00	10.06
1303	CB	ILE	A	196	40.064	17.777	67.602	1.00	8.78
1304	CG1	ILE	A	196	40.274	18.444	66.261	1.00	8.59
1305	CD1	ILE	A	196	39.396	19.599	65.981	1.00	12.00
1306	CG2	ILE	A	196	39.298	18.626	68.541	1.00	7.72
1307	C	ILE	A	196	42.384	16.807	67.222	1.00	10.51
1308	O	ILE	A	196	43.507	17.309	66.974	1.00	11.98
1309	N	PRO	A	197	41.998	15.651	66.718	1.00	10.15
1310	CA	PRO	A	197	42.814	15.020	65.700	1.00	9.75
1311	CB	PRO	A	197	42.593	13.515	65.945	1.00	9.63
1312	CG	PRO	A	197	41.598	13.523	67.116	1.00	9.67
1313	CD	PRO	A	197	40.901	14.791	67.144	1.00	8.91
1314	C	PRO	A	197	42.436	15.419	64.319	1.00	9.66
1315	O	PRO	A	197	41.308	15.882	64.031	1.00	9.52
1316	N	ASP	A	198	43.439	15.225	63.461	1.00	9.47
1317	CA	ASP	A	198	43.221	15.059	62.057	1.00	9.99

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1318	CB	ASP	A	198	44.563	15.181	61.314	1.00	10.00
1319	CG	ASP	A	198	45.432	13.888	61.381	1.00	15.73
1320	OD1	ASP	A	198	45.022	12.821	61.980	1.00	18.50
1321	OD2	ASP	A	198	46.549	13.829	60.812	1.00	20.20
1322	C	ASP	A	198	42.536	13.667	61.966	1.00	8.92
1323	O	ASP	A	198	42.370	12.996	63.001	1.00	8.89
1324	N	TRP	A	199	42.196	13.260	60.742	1.00	7.92
1325	CA	TRP	A	199	41.417	12.064	60.447	1.00	7.30
1326	CB	TRP	A	199	41.143	11.941	58.954	1.00	6.13
1327	CG	TRP	A	199	40.078	10.932	58.648	1.00	4.99
1328	CD1	TRP	A	199	38.754	11.148	58.516	1.00	2.84
1329	NE1	TRP	A	199	38.096	9.969	58.255	1.00	2.00
1330	CE2	TRP	A	199	39.027	8.975	58.209	1.00	3.79
1331	CD2	TRP	A	199	40.277	9.558	58.413	1.00	4.71
1332	CE3	TRP	A	199	41.386	8.737	58.440	1.00	2.00
1333	CZ3	TRP	A	199	41.214	7.419	58.240	1.00	2.00
1334	CH2	TRP	A	199	39.996	6.899	58.050	1.00	2.00
1335	CZ2	TRP	A	199	38.875	7.658	58.047	1.00	3.85
1336	C	TRP	A	199	42.127	10.818	60.787	1.00	8.48
1337	O	TRP	A	199	41.543	9.940	61.388	1.00	9.66
1338	N	VAL	A	200	43.368	10.677	60.334	1.00	8.98
1339	CA	VAL	A	200	44.075	9.423	60.558	1.00	8.44
1340	CB	VAL	A	200	45.350	9.261	59.686	1.00	8.16
1341	CG1	VAL	A	200	45.715	7.778	59.667	1.00	7.03
1342	CG2	VAL	A	200	46.490	10.097	60.195	1.00	4.31
1343	C	VAL	A	200	44.389	9.197	62.030	1.00	9.57
1344	O	VAL	A	200	44.444	8.048	62.490	1.00	11.04
1345	N	TYR	A	201	44.623	10.293	62.760	1.00	9.82
1346	CA	TYR	A	201	44.782	10.190	64.207	1.00	9.28
1347	CB	TYR	A	201	45.395	11.507	64.820	1.00	7.70
1348	CG	TYR	A	201	46.938	11.408	64.935	1.00	6.66
1349	CD1	TYR	A	201	47.533	10.905	66.047	1.00	2.00
1350	CE1	TYR	A	201	48.908	10.806	66.138	1.00	8.22
1351	CZ	TYR	A	201	49.701	11.193	65.095	1.00	9.66
1352	OH	TYR	A	201	51.048	11.109	65.135	1.00	9.82
1353	CE2	TYR	A	201	49.116	11.699	63.955	1.00	11.05
1354	CD2	TYR	A	201	47.758	11.820	63.890	1.00	5.39
1355	C	TYR	A	201	43.474	9.805	64.877	1.00	9.82
1356	O	TYR	A	201	43.510	9.263	65.904	1.00	10.15
1357	N	GLU	A	202	42.334	10.118	64.311	1.00	11.33
1358	CA	GLU	A	202	41.093	9.775	64.995	1.00	15.25
1359	CB	GLU	A	202	40.000	10.794	64.666	1.00	15.22
1360	CG	GLU	A	202	38.695	10.174	64.193	1.00	24.35
1361	CD	GLU	A	202	38.523	10.259	62.690	1.00	41.08
1362	OE1	GLU	A	202	37.600	9.607	62.157	1.00	43.03
1363	OE2	GLU	A	202	39.311	10.981	62.040	1.00	42.98
1364	C	GLU	A	202	40.822	8.276	64.927	1.00	15.80
1365	O	GLU	A	202	40.742	7.628	65.914	1.00	17.02
1366	N	GLU	A	203	40.727	7.832	63.690	1.00	15.94
1367	CA	GLU	A	203	40.387	6.468	63.453	1.00	15.80
1368	CB	GLU	A	203	40.188	6.316	61.949	1.00	15.80

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1369	CG	GLU	A	203	39.839	4.888	61.504	1.00	15.27
1370	CD	GLU	A	203	38.447	4.443	61.924	1.00	16.72
1371	OE1	GLU	A	203	38.240	3.183	61.868	1.00	16.79
1372	OE2	GLU	A	203	37.607	5.336	62.294	1.00	18.04
1373	C	GLU	A	203	41.467	5.534	63.884	1.00	15.81
1374	O	GLU	A	203	41.226	4.420	64.375	1.00	17.28
1375	N	GLU	A	204	42.677	5.977	63.687	1.00	16.87
1376	CA	GLU	A	204	43.744	5.015	63.491	1.00	18.22
1377	CB	GLU	A	204	44.293	5.243	62.081	1.00	19.35
1378	CG	GLU	A	204	44.438	3.960	61.294	1.00	24.63
1379	CD	GLU	A	204	43.151	3.208	61.003	1.00	27.80
1380	OE1	GLU	A	204	42.855	2.191	61.676	1.00	31.06
1381	OE2	GLU	A	204	42.498	3.578	60.036	1.00	31.17
1382	C	GLU	A	204	44.825	5.000	64.578	1.00	17.66
1383	O	GLU	A	204	45.573	4.004	64.706	1.00	17.52
1384	N	MET	A	205	44.887	6.060	65.386	1.00	16.35
1385	CA	MET	A	205	45.914	6.153	66.431	1.00	15.62
1386	CB	MET	A	205	46.774	7.374	66.227	1.00	14.60
1387	CG	MET	A	205	47.935	7.441	67.092	1.00	12.29
1388	SD	MET	A	205	48.735	5.887	67.337	1.00	12.50
1389	CE	MET	A	205	49.775	5.686	65.960	1.00	8.70
1390	C	MET	A	205	45.256	6.183	67.801	1.00	15.79
1391	O	MET	A	205	45.314	5.159	68.524	1.00	15.63
1392	N	LEU	A	206	44.532	7.287	68.046	1.00	15.09
1393	CA	LEU	A	206	43.925	7.645	69.321	1.00	14.60
1394	CB	LEU	A	206	43.618	9.119	69.405	1.00	14.24
1395	CG	LEU	A	206	44.844	9.983	69.191	1.00	13.66
1396	CD1	LEU	A	206	44.472	11.356	69.626	1.00	12.77
1397	CD2	LEU	A	206	46.073	9.434	69.949	1.00	11.61
1398	C	LEU	A	206	42.619	7.011	69.543	1.00	14.20
1399	O	LEU	A	206	42.319	6.653	70.655	1.00	15.54
1400	N	ALA	A	207	41.829	6.922	68.496	1.00	14.62
1401	CA	ALA	A	207	40.422	6.486	68.598	1.00	14.74
1402	CB	ALA	A	207	40.331	5.017	68.897	1.00	14.85
1403	C	ALA	A	207	39.628	7.274	69.604	1.00	15.01
1404	O	ALA	A	207	38.956	6.718	70.452	1.00	15.29
1405	N	THR	A	208	39.720	8.585	69.438	1.00	15.41
1406	CA	THR	A	208	39.149	9.562	70.297	1.00	16.34
1407	CB	THR	A	208	40.228	10.070	71.125	1.00	16.62
1408	OG1	THR	A	208	40.965	8.998	71.778	1.00	20.37
1409	CG2	THR	A	208	39.617	10.789	72.211	1.00	18.89
1410	C	THR	A	208	38.702	10.774	69.512	1.00	16.53
1411	O	THR	A	208	39.426	11.225	68.609	1.00	16.01
1412	N	LYS	A	209	37.570	11.367	69.891	1.00	15.37
1413	CA	LYS	A	209	37.186	12.612	69.283	1.00	13.41
1414	CB	LYS	A	209	35.689	12.905	69.599	1.00	13.69
1415	CG	LYS	A	209	35.316	14.081	70.583	1.00	13.74
1416	CD	LYS	A	209	34.528	15.279	69.863	1.00	13.48
1417	CE	LYS	A	209	33.443	15.885	70.715	1.00	15.26
1418	NZ	LYS	A	209	32.467	16.787	69.988	1.00	17.91
1419	C	LYS	A	209	38.145	13.768	69.663	1.00	12.86

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1420	O	LYS	A	209	38.145	14.803	68.998	1.00	13.32
1421	N	TYR	A	210	38.943	13.603	70.730	1.00	13.44
1422	CA	TYR	A	210	39.670	14.718	71.404	1.00	12.77
1423	CB	TYR	A	210	39.184	14.991	72.874	1.00	12.71
1424	CG	TYR	A	210	39.445	13.783	73.758	1.00	14.64
1425	CD1	TYR	A	210	38.452	12.806	73.915	1.00	13.22
1426	CE1	TYR	A	210	38.658	11.665	74.660	1.00	12.26
1427	CZ	TYR	A	210	39.883	11.447	75.189	1.00	14.02
1428	OH	TYR	A	210	40.049	10.295	75.843	1.00	8.69
1429	CE2	TYR	A	210	40.929	12.381	75.043	1.00	14.83
1430	CD2	TYR	A	210	40.697	13.555	74.334	1.00	12.05
1431	C	TYR	A	210	41.159	14.416	71.466	1.00	12.47
1432	O	TYR	A	210	41.604	13.204	71.414	1.00	11.88
1433	N	ALA	A	211	41.899	15.526	71.590	1.00	10.98
1434	CA	ALA	A	211	43.325	15.503	71.832	1.00	11.91
1435	CB	ALA	A	211	44.072	15.446	70.581	1.00	11.27
1436	C	ALA	A	211	43.733	16.711	72.690	1.00	13.18
1437	O	ALA	A	211	44.620	17.523	72.382	1.00	13.55
1438	N	LEU	A	212	43.022	16.828	73.784	1.00	13.41
1439	CA	LEU	A	212	43.618	17.443	74.922	1.00	14.68
1440	CB	LEU	A	212	43.225	18.899	75.051	1.00	13.96
1441	CG	LEU	A	212	41.710	19.040	74.987	1.00	12.20
1442	CD1	LEU	A	212	41.179	19.286	76.320	1.00	12.61
1443	CD2	LEU	A	212	41.328	20.127	74.075	1.00	9.98
1444	C	LEU	A	212	43.276	16.628	76.197	1.00	16.15
1445	O	LEU	A	212	42.234	15.933	76.350	1.00	16.74
1446	N	TRP	A	213	44.230	16.727	77.095	1.00	16.90
1447	CA	TRP	A	213	44.151	16.180	78.423	1.00	17.56
1448	CB	TRP	A	213	45.145	15.053	78.523	1.00	17.59
1449	CG	TRP	A	213	45.140	14.256	77.262	1.00	18.92
1450	CD1	TRP	A	213	44.428	13.104	77.017	1.00	19.54
1451	NE1	TRP	A	213	44.702	12.648	75.752	1.00	21.55
1452	CE2	TRP	A	213	45.576	13.520	75.135	1.00	20.14
1453	CD2	TRP	A	213	45.864	14.547	76.054	1.00	19.64
1454	CE3	TRP	A	213	46.752	15.564	75.659	1.00	17.89
1455	CZ3	TRP	A	213	47.306	15.518	74.366	1.00	16.32
1456	CH2	TRP	A	213	46.990	14.486	73.486	1.00	17.18
1457	CZ2	TRP	A	213	46.143	13.482	73.844	1.00	18.30
1458	C	TRP	A	213	44.511	17.305	79.365	1.00	17.50
1459	O	TRP	A	213	45.566	17.975	79.251	1.00	17.10
1460	N	TRP	A	214	43.606	17.555	80.274	1.00	17.44
1461	CA	TRP	A	214	44.022	18.271	81.445	1.00	17.19
1462	CB	TRP	A	214	42.846	18.638	82.273	1.00	17.35
1463	CG	TRP	A	214	42.042	19.668	81.735	1.00	16.87
1464	CD1	TRP	A	214	41.030	19.507	80.885	1.00	16.34
1465	NE1	TRP	A	214	40.430	20.717	80.659	1.00	16.27
1466	CE2	TRP	A	214	41.070	21.679	81.388	1.00	14.10
1467	CD2	TRP	A	214	42.086	21.047	82.081	1.00	14.65
1468	CE3	TRP	A	214	42.894	21.809	82.914	1.00	15.54
1469	CZ3	TRP	A	214	42.671	23.182	83.005	1.00	13.96
1470	CH2	TRP	A	214	41.641	23.779	82.311	1.00	14.70

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1471	CZ2	TRP	A	214	40.826	23.042	81.484	1.00	14.74
1472	C	TRP	A	214	44.863	17.372	82.327	1.00	17.51
1473	O	TRP	A	214	44.571	16.185	82.433	1.00	17.40
1474	N	SER	A	215	45.876	17.988	82.967	1.00	17.31
1475	CA	SER	A	215	46.630	17.393	84.056	1.00	17.49
1476	CB	SER	A	215	47.945	18.180	84.290	1.00	17.99
1477	OG	SER	A	215	47.822	19.303	85.150	1.00	17.25
1478	C	SER	A	215	45.720	17.282	85.305	1.00	17.59
1479	O	SER	A	215	44.715	17.998	85.430	1.00	17.95
1480	N	PRO	A	216	46.054	16.365	86.202	1.00	17.58
1481	CA	PRO	A	216	45.032	15.701	87.032	1.00	18.06
1482	CB	PRO	A	216	45.839	14.640	87.785	1.00	18.09
1483	CG	PRO	A	216	47.282	15.202	87.861	1.00	17.70
1484	CD	PRO	A	216	47.421	15.900	86.527	1.00	17.79
1485	C	PRO	A	216	44.304	16.621	88.014	1.00	18.30
1486	O	PRO	A	216	43.176	16.289	88.447	1.00	17.67
1487	N	ASN	A	217	44.975	17.729	88.355	1.00	18.21
1488	CA	ASN	A	217	44.401	18.805	89.132	1.00	18.80
1489	CB	ASN	A	217	45.420	19.400	90.098	1.00	19.15
1490	CG	ASN	A	217	45.316	18.788	91.503	1.00	20.23
1491	OD1	ASN	A	217	44.677	19.379	92.375	1.00	22.84
1492	ND2	ASN	A	217	45.911	17.595	91.714	1.00	17.62
1493	C	ASN	A	217	43.866	19.906	88.251	1.00	19.26
1494	O	ASN	A	217	42.879	20.534	88.618	1.00	20.09
1495	N	GLY	A	218	44.510	20.159	87.106	1.00	18.87
1496	CA	GLY	A	218	44.125	21.255	86.223	1.00	17.96
1497	C	GLY	A	218	44.993	22.490	86.361	1.00	18.15
1498	O	GLY	A	218	44.561	23.647	86.164	1.00	17.76
1499	N	LYS	A	219	46.247	22.219	86.702	1.00	18.02
1500	CA	LYS	A	219	47.235	23.261	86.909	1.00	18.20
1501	CB	LYS	A	219	48.299	22.827	87.971	1.00	18.61
1502	CG	LYS	A	219	48.165	23.492	89.384	1.00	17.63
1503	CD	LYS	A	219	49.552	23.615	90.099	1.00	19.60
1504	CE	LYS	A	219	49.530	23.131	91.599	1.00	19.51
1505	NZ	LYS	A	219	49.538	21.610	91.820	1.00	17.13
1506	C	LYS	A	219	47.863	23.592	85.557	1.00	17.84
1507	O	LYS	A	219	48.490	24.663	85.398	1.00	18.65
1508	N	PHE	A	220	47.651	22.683	84.602	1.00	16.74
1509	CA	PHE	A	220	48.290	22.676	83.293	1.00	15.78
1510	CB	PHE	A	220	49.446	21.688	83.334	1.00	16.30
1511	CG	PHE	A	220	50.713	22.227	83.845	1.00	17.42
1512	CD1	PHE	A	220	51.743	22.524	82.966	1.00	18.41
1513	CE1	PHE	A	220	52.950	23.019	83.449	1.00	21.23
1514	CZ	PHE	A	220	53.148	23.212	84.874	1.00	19.91
1515	CE2	PHE	A	220	52.131	22.920	85.745	1.00	20.23
1516	CD2	PHE	A	220	50.910	22.400	85.222	1.00	20.19
1517	C	PHE	A	220	47.363	22.074	82.231	1.00	15.14
1518	O	PHE	A	220	46.510	21.219	82.536	1.00	15.22
1519	N	LEU	A	221	47.599	22.393	80.963	1.00	14.21
1520	CA	LEU	A	221	46.869	21.712	79.878	1.00	12.91
1521	CB	LEU	A	221	45.753	22.632	79.392	1.00	12.39

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1522	CG	LEU	A	221	44.921	22.165	78.222	1.00	12.82
1523	CD1	LEU	A	221	43.912	21.016	78.653	1.00	12.32
1524	CD2	LEU	A	221	44.252	23.422	77.569	1.00	11.48
1525	C	LEU	A	221	47.789	21.233	78.732	1.00	11.76
1526	O	LEU	A	221	48.613	21.995	78.202	1.00	12.26
1527	N	ALA	A	222	47.682	19.964	78.389	1.00	9.42
1528	CA	ALA	A	222	48.375	19.449	77.216	1.00	8.68
1529	CB	ALA	A	222	49.053	18.098	77.513	1.00	8.21
1530	C	ALA	A	222	47.452	19.306	75.969	1.00	8.72
1531	O	ALA	A	222	46.206	19.127	76.041	1.00	8.83
1532	N	TYR	A	223	48.100	19.383	74.820	1.00	7.95
1533	CA	TYR	A	223	47.413	19.275	73.573	1.00	7.77
1534	CB	TYR	A	223	46.648	20.546	73.224	1.00	7.86
1535	CG	TYR	A	223	47.479	21.807	73.141	1.00	8.92
1536	CD1	TYR	A	223	47.865	22.486	74.288	1.00	10.16
1537	CE1	TYR	A	223	48.600	23.675	74.184	1.00	11.86
1538	CZ	TYR	A	223	48.942	24.155	72.937	1.00	9.55
1539	OH	TYR	A	223	49.672	25.294	72.847	1.00	12.01
1540	CE2	TYR	A	223	48.597	23.484	71.809	1.00	6.61
1541	CD2	TYR	A	223	47.859	22.343	71.903	1.00	7.70
1542	C	TYR	A	223	48.375	18.916	72.505	1.00	7.74
1543	O	TYR	A	223	49.595	18.936	72.692	1.00	8.37
1544	N	ALA	A	224	47.791	18.535	71.395	1.00	7.72
1545	CA	ALA	A	224	48.514	18.166	70.230	1.00	8.33
1546	CB	ALA	A	224	48.091	16.771	69.822	1.00	8.39
1547	C	ALA	A	224	48.233	19.151	69.114	1.00	9.32
1548	O	ALA	A	224	47.191	19.892	69.086	1.00	9.01
1549	N	GLU	A	225	49.198	19.194	68.201	1.00	9.93
1550	CA	GLU	A	225	49.072	19.989	66.963	1.00	10.96
1551	CB	GLU	A	225	50.050	21.148	66.895	1.00	9.98
1552	CG	GLU	A	225	49.985	21.922	65.607	1.00	10.97
1553	CD	GLU	A	225	51.062	23.023	65.527	1.00	14.97
1554	OE1	GLU	A	225	50.848	24.149	66.090	1.00	16.22
1555	OE2	GLU	A	225	52.132	22.764	64.916	1.00	15.71
1556	C	GLU	A	225	49.328	19.018	65.818	1.00	11.43
1557	O	GLU	A	225	50.353	18.298	65.792	1.00	11.92
1558	N	PHE	A	226	48.363	18.948	64.903	1.00	10.84
1559	CA	PHE	A	226	48.575	18.158	63.746	1.00	10.56
1560	CB	PHE	A	226	47.456	17.131	63.613	1.00	10.08
1561	CG	PHE	A	226	47.202	16.302	64.842	1.00	10.23
1562	CD1	PHE	A	226	46.193	16.652	65.743	1.00	11.00
1563	CE1	PHE	A	226	45.912	15.864	66.874	1.00	10.45
1564	CZ	PHE	A	226	46.608	14.689	67.052	1.00	11.00
1565	CE2	PHE	A	226	47.596	14.319	66.121	1.00	11.50
1566	CD2	PHE	A	226	47.858	15.099	65.022	1.00	9.36
1567	C	PHE	A	226	48.597	19.157	62.598	1.00	10.55
1568	O	PHE	A	226	47.727	20.063	62.536	1.00	10.60
1569	N	ASN	A	227	49.601	19.027	61.725	1.00	10.90
1570	CA	ASN	A	227	49.771	19.871	60.540	1.00	12.05
1571	CB	ASN	A	227	51.157	20.694	60.531	1.00	12.33
1572	CG	ASN	A	227	51.597	21.176	59.124	1.00	14.31

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1573	OD1	ASN	A	227	50.914	21.021	58.066	1.00	17.92
1574	ND2	ASN	A	227	52.764	21.726	59.102	1.00	24.00
1575	C	ASN	A	227	49.596	18.837	59.412	1.00	12.31
1576	O	ASN	A	227	50.449	17.953	59.238	1.00	11.08
1577	N	ASP	A	228	48.475	18.963	58.672	1.00	13.24
1578	CA	ASP	A	228	48.157	18.072	57.576	1.00	13.95
1579	CB	ASP	A	228	46.668	17.712	57.641	1.00	14.37
1580	CG	ASP	A	228	46.377	16.574	58.571	1.00	15.21
1581	OD1	ASP	A	228	47.126	16.377	59.550	1.00	17.68
1582	OD2	ASP	A	228	45.403	15.841	58.417	1.00	15.95
1583	C	ASP	A	228	48.536	18.573	56.149	1.00	14.20
1584	O	ASP	A	228	48.276	17.904	55.165	1.00	14.82
1585	N	THR	A	229	49.201	19.700	56.057	1.00	14.55
1586	CA	THR	A	229	49.311	20.467	54.827	1.00	15.14
1587	CB	THR	A	229	50.122	21.804	55.087	1.00	15.17
1588	OG1	THR	A	229	49.916	22.262	56.416	1.00	14.48
1589	CG2	THR	A	229	49.577	22.972	54.243	1.00	13.29
1590	C	THR	A	229	49.875	19.818	53.541	1.00	16.31
1591	O	THR	A	229	49.470	20.251	52.416	1.00	17.13
1592	N	ASP	A	230	50.835	18.900	53.591	1.00	16.35
1593	CA	ASP	A	230	51.110	18.234	52.299	1.00	17.72
1594	CB	ASP	A	230	52.526	18.268	51.735	1.00	18.15
1595	CG	ASP	A	230	53.225	19.570	51.968	1.00	24.39
1596	OD1	ASP	A	230	53.037	20.070	53.107	1.00	30.74
1597	OD2	ASP	A	230	53.995	20.134	51.112	1.00	28.33
1598	C	ASP	A	230	50.713	16.833	52.353	1.00	17.55
1599	O	ASP	A	230	51.243	16.061	51.592	1.00	19.14
1600	N	ILE	A	231	49.799	16.480	53.247	1.00	16.72
1601	CA	ILE	A	231	49.198	15.182	53.202	1.00	14.42
1602	CB	ILE	A	231	48.375	14.909	54.438	1.00	13.97
1603	CG1	ILE	A	231	49.234	15.020	55.675	1.00	13.23
1604	CD1	ILE	A	231	48.945	13.946	56.723	1.00	13.72
1605	CG2	ILE	A	231	47.659	13.456	54.359	1.00	14.63
1606	C	ILE	A	231	48.284	15.327	52.014	1.00	14.49
1607	O	ILE	A	231	47.502	16.272	51.955	1.00	14.80
1608	N	PRO	A	232	48.367	14.397	51.085	1.00	14.06
1609	CA	PRO	A	232	47.494	14.425	49.946	1.00	13.55
1610	CB	PRO	A	232	47.888	13.160	49.189	1.00	14.34
1611	CG	PRO	A	232	49.259	12.783	49.683	1.00	12.99
1612	CD	PRO	A	232	49.272	13.241	51.066	1.00	13.51
1613	C	PRO	A	232	46.120	14.252	50.497	1.00	13.34
1614	O	PRO	A	232	45.996	13.910	51.641	1.00	13.89
1615	N	VAL	A	233	45.111	14.426	49.675	1.00	11.29
1616	CA	VAL	A	233	43.726	14.347	50.107	1.00	10.64
1617	CB	VAL	A	233	42.960	15.726	49.810	1.00	9.54
1618	CG1	VAL	A	233	43.630	16.858	50.511	1.00	9.53
1619	CG2	VAL	A	233	42.907	15.963	48.427	1.00	7.79
1620	C	VAL	A	233	43.057	13.185	49.368	1.00	10.11
1621	O	VAL	A	233	43.407	12.872	48.228	1.00	7.91
1622	N	ILE	A	234	42.110	12.514	49.995	1.00	11.28
1623	CA	ILE	A	234	41.290	11.638	49.189	1.00	13.63

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1624	CB	ILE	A	234	40.995	10.305	49.866	1.00	13.33
1625	CG1	ILE	A	234	40.540	9.352	48.776	1.00	13.40
1626	CD1	ILE	A	234	39.256	9.191	48.754	1.00	2.00
1627	CG2	ILE	A	234	39.935	10.373	51.032	1.00	14.37
1628	C	ILE	A	234	40.045	12.400	48.828	1.00	14.35
1629	O	ILE	A	234	39.526	13.018	49.687	1.00	16.85
1630	N	ALA	A	235	39.606	12.375	47.579	1.00	13.84
1631	CA	ALA	A	235	38.406	13.121	47.140	1.00	15.67
1632	CB	ALA	A	235	38.752	14.091	46.015	1.00	13.12
1633	C	ALA	A	235	37.283	12.199	46.699	1.00	16.17
1634	O	ALA	A	235	37.515	11.180	46.019	1.00	18.68
1635	N	TYR	A	236	36.070	12.499	47.125	1.00	16.59
1636	CA	TYR	A	236	34.910	11.660	46.767	1.00	15.78
1637	CB	TYR	A	236	34.644	10.510	47.794	1.00	16.36
1638	CG	TYR	A	236	34.337	10.889	49.282	1.00	16.00
1639	CD1	TYR	A	236	33.067	11.378	49.667	1.00	17.93
1640	CE1	TYR	A	236	32.778	11.732	51.000	1.00	15.24
1641	CZ	TYR	A	236	33.760	11.589	51.982	1.00	17.78
1642	OH	TYR	A	236	33.428	11.885	53.309	1.00	19.43
1643	CE2	TYR	A	236	35.031	11.139	51.617	1.00	13.29
1644	CD2	TYR	A	236	35.290	10.749	50.276	1.00	14.26
1645	C	TYR	A	236	33.744	12.598	46.535	1.00	15.31
1646	O	TYR	A	236	33.863	13.785	46.828	1.00	16.56
1647	N	SER	A	237	32.695	12.084	45.879	1.00	14.25
1648	CA	SER	A	237	31.490	12.820	45.568	1.00	13.06
1649	CB	SER	A	237	30.842	12.276	44.335	1.00	12.64
1650	OG	SER	A	237	31.666	12.499	43.219	1.00	16.53
1651	C	SER	A	237	30.525	12.661	46.635	1.00	12.28
1652	O	SER	A	237	30.498	11.648	47.258	1.00	14.53
1653	N	TYR	A	238	29.745	13.682	46.877	1.00	11.53
1654	CA	TYR	A	238	28.622	13.594	47.764	1.00	12.47
1655	CB	TYR	A	238	28.818	14.234	49.142	1.00	11.70
1656	CG	TYR	A	238	27.642	14.101	50.102	1.00	14.33
1657	CD1	TYR	A	238	26.702	15.137	50.247	1.00	15.51
1658	CE1	TYR	A	238	25.684	15.060	51.145	1.00	15.57
1659	CZ	TYR	A	238	25.579	13.914	51.983	1.00	19.11
1660	OH	TYR	A	238	24.530	13.794	52.901	1.00	20.40
1661	CE2	TYR	A	238	26.510	12.907	51.899	1.00	16.71
1662	CD2	TYR	A	238	27.534	13.013	50.924	1.00	14.86
1663	C	TYR	A	238	27.542	14.277	47.029	1.00	12.15
1664	O	TYR	A	238	27.511	15.532	46.826	1.00	14.69
1665	N	TYR	A	239	26.637	13.422	46.644	1.00	11.10
1666	CA	TYR	A	239	25.595	13.817	45.750	1.00	10.79
1667	CB	TYR	A	239	24.888	12.567	45.281	1.00	10.20
1668	CG	TYR	A	239	25.870	11.748	44.583	1.00	7.32
1669	CD1	TYR	A	239	26.345	12.175	43.374	1.00	4.79
1670	CE1	TYR	A	239	27.321	11.470	42.690	1.00	10.51
1671	CZ	TYR	A	239	27.821	10.283	43.246	1.00	9.98
1672	OH	TYR	A	239	28.728	9.686	42.528	1.00	15.80
1673	CE2	TYR	A	239	27.432	9.862	44.513	1.00	4.55
1674	CD2	TYR	A	239	26.420	10.590	45.185	1.00	2.00

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1675	C	TYR	A	239	24.595	14.659	46.405	1.00	10.97
1676	O	TYR	A	239	24.055	15.572	45.774	1.00	12.85
1677	N	GLY	A	240	24.243	14.301	47.624	1.00	10.20
1678	CA	GLY	A	240	23.415	15.183	48.383	1.00	11.05
1679	C	GLY	A	240	22.065	15.345	47.762	1.00	11.71
1680	O	GLY	A	240	21.582	14.379	47.201	1.00	13.42
1681	N	ASP	A	241	21.452	16.501	47.957	1.00	11.09
1682	CA	ASP	A	241	20.160	16.795	47.388	1.00	12.91
1683	CB	ASP	A	241	19.063	16.784	48.534	1.00	14.56
1684	CG	ASP	A	241	19.188	15.522	49.551	1.00	20.34
1685	OD1	ASP	A	241	19.564	15.780	50.769	1.00	24.58
1686	OD2	ASP	A	241	18.982	14.278	49.210	1.00	23.77
1687	C	ASP	A	241	20.175	18.156	46.544	1.00	13.09
1688	O	ASP	A	241	19.138	18.652	46.069	1.00	12.60
1689	N	GLU	A	242	21.327	18.769	46.315	1.00	12.17
1690	CA	GLU	A	242	21.314	19.932	45.414	1.00	12.38
1691	CB	GLU	A	242	22.505	20.878	45.785	1.00	13.56
1692	CG	GLU	A	242	22.588	21.395	47.237	1.00	16.39
1693	CD	GLU	A	242	21.375	22.326	47.554	1.00	26.19
1694	OE1	GLU	A	242	20.751	22.906	46.574	1.00	27.28
1695	OE2	GLU	A	242	21.006	22.467	48.777	1.00	31.30
1696	C	GLU	A	242	21.412	19.468	43.943	1.00	10.99
1697	O	GLU	A	242	21.585	18.261	43.600	1.00	11.75
1698	N	GLN	A	243	21.333	20.419	43.050	1.00	9.18
1699	CA	GLN	A	243	21.374	20.097	41.669	1.00	7.90
1700	CB	GLN	A	243	21.055	21.332	40.864	1.00	8.08
1701	CG	GLN	A	243	21.136	20.996	39.427	1.00	4.62
1702	CD	GLN	A	243	20.781	22.049	38.590	1.00	2.78
1703	OE1	GLN	A	243	20.062	21.803	37.637	1.00	6.87
1704	NE2	GLN	A	243	21.216	23.251	38.899	1.00	2.00
1705	C	GLN	A	243	22.700	19.504	41.241	1.00	9.46
1706	O	GLN	A	243	22.723	18.641	40.381	1.00	8.80
1707	N	TYR	A	244	23.821	19.940	41.850	1.00	11.40
1708	CA	TYR	A	244	25.161	19.336	41.548	1.00	11.40
1709	CB	TYR	A	244	26.175	20.421	41.319	1.00	11.04
1710	CG	TYR	A	244	26.012	21.174	40.022	1.00	12.46
1711	CD1	TYR	A	244	26.622	20.710	38.864	1.00	9.62
1712	CE1	TYR	A	244	26.457	21.352	37.705	1.00	12.86
1713	CZ	TYR	A	244	25.705	22.492	37.648	1.00	14.41
1714	OH	TYR	A	244	25.602	23.121	36.405	1.00	15.83
1715	CE2	TYR	A	244	25.031	22.940	38.766	1.00	11.85
1716	CD2	TYR	A	244	25.212	22.307	39.944	1.00	10.00
1717	C	TYR	A	244	25.707	18.592	42.706	1.00	11.84
1718	O	TYR	A	244	25.566	19.053	43.773	1.00	12.65
1719	N	PRO	A	245	26.342	17.455	42.505	1.00	11.92
1720	CA	PRO	A	245	27.027	16.799	43.595	1.00	11.27
1721	CB	PRO	A	245	27.605	15.567	42.956	1.00	10.50
1722	CG	PRO	A	245	27.648	15.837	41.614	1.00	12.61
1723	CD	PRO	A	245	26.445	16.643	41.293	1.00	11.53
1724	C	PRO	A	245	28.091	17.696	44.032	1.00	10.77
1725	O	PRO	A	245	28.403	18.666	43.380	1.00	11.43

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1726	N	ARG	A	246	28.547	17.472	45.223	1.00	11.00
1727	CA	ARG	A	246	29.678	18.316	45.681	1.00	10.93
1728	CB	ARG	A	246	29.279	19.340	46.726	1.00	10.70
1729	CG	ARG	A	246	28.906	18.763	48.024	1.00	14.72
1730	CD	ARG	A	246	28.544	19.865	49.025	1.00	22.87
1731	NE	ARG	A	246	28.496	19.371	50.397	1.00	27.06
1732	CZ	ARG	A	246	27.441	18.714	50.953	1.00	27.60
1733	NH1	ARG	A	246	27.555	18.277	52.201	1.00	19.53
1734	NH2	ARG	A	246	26.288	18.482	50.271	1.00	29.12
1735	C	ARG	A	246	30.775	17.406	46.095	1.00	9.58
1736	O	ARG	A	246	30.621	16.159	46.090	1.00	8.81
1737	N	THR	A	247	31.914	18.029	46.316	1.00	10.00
1738	CA	THR	A	247	33.193	17.301	46.376	1.00	9.95
1739	CB	THR	A	247	34.172	17.929	45.373	1.00	10.67
1740	OG1	THR	A	247	33.747	17.645	44.039	1.00	9.02
1741	CG2	THR	A	247	35.559	17.327	45.410	1.00	9.65
1742	C	THR	A	247	33.662	17.345	47.802	1.00	10.53
1743	O	THR	A	247	33.772	18.359	48.402	1.00	10.79
1744	N	ILE	A	248	33.844	16.198	48.381	1.00	11.56
1745	CA	ILE	A	248	34.392	16.106	49.714	1.00	12.98
1746	CB	ILE	A	248	33.758	14.925	50.422	1.00	12.40
1747	CG1	ILE	A	248	32.300	15.268	50.725	1.00	15.02
1748	CD1	ILE	A	248	31.941	15.380	52.101	1.00	20.22
1749	CG2	ILE	A	248	34.473	14.627	51.622	1.00	8.79
1750	C	ILE	A	248	35.908	15.843	49.625	1.00	13.55
1751	O	ILE	A	248	36.332	14.903	48.948	1.00	14.13
1752	N	ASN	A	249	36.698	16.609	50.367	1.00	13.90
1753	CA	ASN	A	249	38.133	16.324	50.482	1.00	13.69
1754	CB	ASN	A	249	38.862	17.624	50.120	1.00	15.72
1755	CG	ASN	A	249	38.725	18.044	48.618	1.00	15.42
1756	OD1	ASN	A	249	37.962	18.912	48.332	1.00	19.30
1757	ND2	ASN	A	249	39.543	17.471	47.711	1.00	15.03
1758	C	ASN	A	249	38.565	15.959	51.899	1.00	13.46
1759	O	ASN	A	249	38.095	16.474	52.844	1.00	13.52
1760	N	ILE	A	250	39.510	15.094	52.072	1.00	13.73
1761	CA	ILE	A	250	40.015	14.798	53.423	1.00	14.41
1762	CB	ILE	A	250	39.365	13.556	54.085	1.00	13.86
1763	CG1	ILE	A	250	37.882	13.407	53.814	1.00	13.07
1764	CD1	ILE	A	250	37.297	12.255	54.531	1.00	3.67
1765	CG2	ILE	A	250	39.599	13.581	55.597	1.00	14.87
1766	C	ILE	A	250	41.529	14.446	53.365	1.00	14.72
1767	O	ILE	A	250	41.896	13.405	52.723	1.00	16.40
1768	N	PRO	A	251	42.370	15.175	54.097	1.00	12.63
1769	CA	PRO	A	251	43.787	14.804	54.207	1.00	11.69
1770	CB	PRO	A	251	44.357	15.830	55.163	1.00	10.04
1771	CG	PRO	A	251	43.377	16.929	55.181	1.00	11.46
1772	CD	PRO	A	251	42.017	16.350	54.888	1.00	12.36
1773	C	PRO	A	251	43.863	13.404	54.776	1.00	11.53
1774	O	PRO	A	251	43.447	13.273	55.889	1.00	13.40
1775	N	TYR	A	252	44.353	12.423	54.014	1.00	12.09
1776	CA	TYR	A	252	44.368	10.987	54.338	1.00	11.84

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1777	CB	TYR	A	252	43.259	10.338	53.633	1.00	9.92
1778	CG	TYR	A	252	42.905	8.950	54.021	1.00	9.52
1779	CD1	TYR	A	252	41.723	8.687	54.710	1.00	9.33
1780	CE1	TYR	A	252	41.332	7.435	55.020	1.00	12.90
1781	CZ	TYR	A	252	42.122	6.341	54.611	1.00	14.42
1782	OH	TYR	A	252	41.763	5.043	54.880	1.00	14.51
1783	CE2	TYR	A	252	43.253	6.577	53.890	1.00	10.13
1784	CD2	TYR	A	252	43.597	7.904	53.553	1.00	10.81
1785	C	TYR	A	252	45.622	10.417	53.718	1.00	13.21
1786	O	TYR	A	252	45.759	10.402	52.469	1.00	14.83
1787	N	PRO	A	253	46.539	10.034	54.555	1.00	12.63
1788	CA	PRO	A	253	47.789	9.380	54.143	1.00	13.49
1789	CB	PRO	A	253	48.761	9.661	55.299	1.00	13.59
1790	CG	PRO	A	253	47.977	10.440	56.317	1.00	13.58
1791	CD	PRO	A	253	46.480	10.309	55.981	1.00	13.29
1792	C	PRO	A	253	47.698	7.905	53.958	1.00	14.24
1793	O	PRO	A	253	47.458	7.184	54.930	1.00	16.06
1794	N	LYS	A	254	47.964	7.461	52.736	1.00	13.94
1795	CA	LYS	A	254	47.866	6.060	52.382	1.00	12.94
1796	CB	LYS	A	254	47.278	5.941	50.975	1.00	12.37
1797	CG	LYS	A	254	45.776	6.376	50.907	1.00	16.73
1798	CD	LYS	A	254	45.351	6.972	49.499	1.00	14.57
1799	CE	LYS	A	254	44.317	6.201	48.797	1.00	15.51
1800	NZ	LYS	A	254	43.004	6.610	49.180	1.00	15.21
1801	C	LYS	A	254	49.284	5.507	52.464	1.00	10.97
1802	O	LYS	A	254	50.204	6.220	52.738	1.00	12.29
1803	N	ALA	A	255	49.463	4.240	52.221	1.00	9.66
1804	CA	ALA	A	255	50.742	3.597	52.435	1.00	8.83
1805	CB	ALA	A	255	50.713	2.137	52.009	1.00	8.02
1806	C	ALA	A	255	51.903	4.317	51.769	1.00	8.42
1807	O	ALA	A	255	52.008	4.425	50.545	1.00	8.08
1808	N	GLY	A	256	52.712	4.879	52.634	1.00	8.46
1809	CA	GLY	A	256	54.029	5.342	52.291	1.00	8.08
1810	C	GLY	A	256	54.021	6.774	51.908	1.00	7.63
1811	O	GLY	A	256	55.052	7.261	51.460	1.00	6.56
1812	N	ALA	A	257	52.863	7.409	52.051	1.00	6.97
1813	CA	ALA	A	257	52.732	8.791	51.694	1.00	8.33
1814	CB	ALA	A	257	51.296	9.127	51.354	1.00	6.37
1815	C	ALA	A	257	53.170	9.612	52.847	1.00	9.33
1816	O	ALA	A	257	53.356	9.124	53.916	1.00	9.16
1817	N	LYS	A	258	53.285	10.896	52.581	1.00	10.60
1818	CA	LYS	A	258	53.585	11.918	53.560	1.00	11.29
1819	CB	LYS	A	258	53.839	13.253	52.789	1.00	11.75
1820	CG	LYS	A	258	53.924	14.580	53.571	1.00	13.64
1821	CD	LYS	A	258	54.789	14.531	54.835	1.00	19.86
1822	CE	LYS	A	258	55.946	15.555	54.858	1.00	19.33
1823	NZ	LYS	A	258	56.672	15.345	56.167	1.00	22.71
1824	C	LYS	A	258	52.463	11.975	54.626	1.00	10.87
1825	O	LYS	A	258	51.381	12.344	54.348	1.00	11.47
1826	N	ASN	A	259	52.785	11.485	55.820	1.00	11.06
1827	CA	ASN	A	259	52.051	11.606	57.106	1.00	10.06

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1828	CB	ASN	A	259	52.695	10.669	58.127	1.00	8.02
1829	CG	ASN	A	259	52.018	9.276	58.168	1.00	8.20
1830	OD1	ASN	A	259	52.565	8.323	58.775	1.00	10.00
1831	ND2	ASN	A	259	50.864	9.141	57.530	1.00	2.00
1832	C	ASN	A	259	52.013	13.009	57.754	1.00	9.74
1833	O	ASN	A	259	52.840	13.890	57.447	1.00	9.92
1834	N	PRO	A	260	51.131	13.186	58.736	1.00	9.50
1835	CA	PRO	A	260	51.085	14.489	59.413	1.00	8.94
1836	CB	PRO	A	260	49.844	14.415	60.274	1.00	9.07
1837	CG	PRO	A	260	49.237	12.928	60.055	1.00	8.15
1838	CD	PRO	A	260	50.259	12.146	59.356	1.00	8.42
1839	C	PRO	A	260	52.323	14.526	60.285	1.00	10.00
1840	O	PRO	A	260	52.739	13.404	60.720	1.00	8.96
1841	N	VAL	A	261	52.934	15.715	60.460	1.00	10.41
1842	CA	VAL	A	261	53.874	15.955	61.554	1.00	11.15
1843	CB	VAL	A	261	55.019	16.990	61.193	1.00	12.43
1844	CG1	VAL	A	261	54.696	18.474	61.664	1.00	12.99
1845	CG2	VAL	A	261	55.406	16.900	59.678	1.00	11.88
1846	C	VAL	A	261	53.079	16.355	62.817	1.00	11.01
1847	O	VAL	A	261	52.052	17.014	62.717	1.00	11.02
1848	N	VAL	A	262	53.518	15.891	63.992	1.00	10.08
1849	CA	VAL	A	262	52.806	16.197	65.231	1.00	10.02
1850	CB	VAL	A	262	52.198	14.926	65.942	1.00	10.04
1851	CG1	VAL	A	262	51.377	15.315	67.193	1.00	7.24
1852	CG2	VAL	A	262	53.275	13.886	66.276	1.00	9.45
1853	C	VAL	A	262	53.699	16.887	66.202	1.00	10.79
1854	O	VAL	A	262	54.887	16.641	66.228	1.00	12.09
1855	N	ARG	A	263	53.119	17.739	67.014	1.00	11.09
1856	CA	ARG	A	263	53.859	18.428	68.057	1.00	12.31
1857	CB	ARG	A	263	54.167	19.900	67.652	1.00	12.57
1858	CG	ARG	A	263	55.606	20.121	67.132	1.00	12.34
1859	CD	ARG	A	263	55.729	20.624	65.727	1.00	15.06
1860	NE	ARG	A	263	55.264	21.997	65.738	1.00	18.80
1861	CZ	ARG	A	263	55.998	23.066	66.048	1.00	19.91
1862	NH1	ARG	A	263	55.402	24.248	66.069	1.00	19.24
1863	NH2	ARG	A	263	57.307	22.988	66.330	1.00	21.73
1864	C	ARG	A	263	53.031	18.355	69.324	1.00	12.40
1865	O	ARG	A	263	51.795	18.398	69.262	1.00	12.69
1866	N	ILE	A	264	53.693	18.227	70.477	1.00	12.11
1867	CA	ILE	A	264	52.927	18.245	71.720	1.00	11.72
1868	CB	ILE	A	264	52.908	16.875	72.457	1.00	11.92
1869	CG1	ILE	A	264	52.032	15.869	71.678	1.00	13.59
1870	CD1	ILE	A	264	52.840	14.723	71.055	1.00	15.14
1871	CG2	ILE	A	264	52.335	17.031	73.845	1.00	11.59
1872	C	ILE	A	264	53.398	19.356	72.591	1.00	10.76
1873	O	ILE	A	264	54.568	19.625	72.672	1.00	9.65
1874	N	PHE	A	265	52.397	19.950	73.228	1.00	10.54
1875	CA	PHE	A	265	52.424	21.251	73.809	1.00	10.38
1876	CB	PHE	A	265	51.594	22.236	72.957	1.00	11.00
1877	CG	PHE	A	265	52.370	23.041	71.935	1.00	9.69
1878	CD1	PHE	A	265	51.884	23.152	70.623	1.00	12.62

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1879	CE1	PHE	A	265	52.542	23.934	69.629	1.00	11.57
1880	CZ	PHE	A	265	53.682	24.608	69.976	1.00	13.82
1881	CE2	PHE	A	265	54.179	24.511	71.303	1.00	11.36
1882	CD2	PHE	A	265	53.507	23.722	72.265	1.00	10.14
1883	C	PHE	A	265	51.732	21.140	75.143	1.00	10.37
1884	O	PHE	A	265	50.594	20.678	75.243	1.00	9.80
1885	N	ILE	A	266	52.429	21.624	76.161	1.00	10.68
1886	CA	ILE	A	266	51.832	21.943	77.453	1.00	10.28
1887	CB	ILE	A	266	52.544	21.110	78.565	1.00	9.74
1888	CG1	ILE	A	266	52.907	19.709	78.062	1.00	9.79
1889	CD1	ILE	A	266	53.294	18.743	79.180	1.00	8.11
1890	CG2	ILE	A	266	51.666	20.983	79.742	1.00	9.37
1891	C	ILE	A	266	51.839	23.481	77.775	1.00	10.24
1892	O	ILE	A	266	52.802	24.213	77.493	1.00	9.21
1893	N	ILE	A	267	50.743	23.904	78.419	1.00	10.91
1894	CA	ILE	A	267	50.486	25.289	78.825	1.00	11.93
1895	CB	ILE	A	267	49.285	25.861	77.995	1.00	12.43
1896	CG1	ILE	A	267	49.243	27.399	77.976	1.00	12.21
1897	CD1	ILE	A	267	50.141	28.016	76.983	1.00	11.80
1898	CG2	ILE	A	267	47.965	25.347	78.548	1.00	13.96
1899	C	ILE	A	267	50.156	25.363	80.319	1.00	12.10
1900	O	ILE	A	267	49.563	24.456	80.848	1.00	12.32
1901	N	ASP	A	268	50.549	26.453	80.988	1.00	12.28
1902	CA	ASP	A	268	50.021	26.790	82.312	1.00	11.91
1903	CB	ASP	A	268	50.769	27.942	82.968	1.00	11.81
1904	CG	ASP	A	268	50.464	28.040	84.443	1.00	11.22
1905	OD1	ASP	A	268	49.363	28.460	84.845	1.00	10.58
1906	OD2	ASP	A	268	51.269	27.678	85.284	1.00	12.74
1907	C	ASP	A	268	48.594	27.229	82.152	1.00	11.97
1908	O	ASP	A	268	48.295	27.977	81.256	1.00	12.29
1909	N	THR	A	269	47.722	26.784	83.028	1.00	12.12
1910	CA	THR	A	269	46.339	27.109	82.904	1.00	12.40
1911	CB	THR	A	269	45.520	26.035	83.446	1.00	12.18
1912	OG1	THR	A	269	45.405	25.036	82.423	1.00	12.78
1913	CG2	THR	A	269	44.091	26.545	83.726	1.00	10.95
1914	C	THR	A	269	46.010	28.330	83.639	1.00	13.27
1915	O	THR	A	269	45.170	29.061	83.215	1.00	13.39
1916	N	THR	A	270	46.607	28.529	84.791	1.00	14.71
1917	CA	THR	A	270	46.271	29.708	85.561	1.00	16.17
1918	CB	THR	A	270	46.637	29.482	87.051	1.00	16.70
1919	OG1	THR	A	270	45.960	28.300	87.524	1.00	17.35
1920	CG2	THR	A	270	46.094	30.605	87.944	1.00	17.07
1921	C	THR	A	270	46.906	30.962	84.924	1.00	16.38
1922	O	THR	A	270	46.200	31.954	84.659	1.00	16.82
1923	N	TYR	A	271	48.203	30.874	84.601	1.00	16.44
1924	CA	TYR	A	271	48.971	31.964	83.985	1.00	16.27
1925	CB	TYR	A	271	50.194	32.266	84.865	1.00	16.51
1926	CG	TYR	A	271	50.063	33.028	86.210	1.00	16.63
1927	CD1	TYR	A	271	50.868	34.162	86.425	1.00	19.71
1928	CE1	TYR	A	271	50.875	34.890	87.654	1.00	20.59
1929	CZ	TYR	A	271	50.077	34.471	88.704	1.00	19.63

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1930	OH	TYR	A	271	50.165	35.290	89.831	1.00	18.08
1931	CE2	TYR	A	271	49.255	33.297	88.546	1.00	17.66
1932	CD2	TYR	A	271	49.271	32.575	87.290	1.00	16.65
1933	C	TYR	A	271	49.465	31.637	82.513	1.00	16.01
1934	O	TYR	A	271	50.688	31.497	82.261	1.00	15.67
1935	N	PRO	A	272	48.536	31.559	81.540	1.00	15.77
1936	CA	PRO	A	272	48.899	31.273	80.135	1.00	16.18
1937	CB	PRO	A	272	47.572	30.848	79.495	1.00	15.66
1938	CG	PRO	A	272	46.459	31.452	80.375	1.00	14.89
1939	CD	PRO	A	272	47.080	31.789	81.693	1.00	15.41
1940	C	PRO	A	272	49.391	32.544	79.490	1.00	17.20
1941	O	PRO	A	272	50.329	32.522	78.665	1.00	17.60
1942	N	ALA	A	273	48.636	33.608	79.810	1.00	18.00
1943	CA	ALA	A	273	49.103	34.943	80.038	1.00	17.91
1944	CB	ALA	A	273	48.548	35.428	81.433	1.00	17.56
1945	C	ALA	A	273	50.626	34.886	79.992	1.00	18.27
1946	O	ALA	A	273	51.222	35.169	78.923	1.00	18.00
1947	N	TYR	A	274	51.209	34.381	81.103	1.00	18.96
1948	CA	TYR	A	274	52.643	34.560	81.511	1.00	19.63
1949	CB	TYR	A	274	52.902	33.776	82.825	1.00	19.55
1950	CG	TYR	A	274	54.242	33.976	83.569	1.00	20.36
1951	CD1	TYR	A	274	54.716	32.978	84.454	1.00	20.71
1952	CE1	TYR	A	274	55.926	33.148	85.186	1.00	20.47
1953	CZ	TYR	A	274	56.666	34.311	85.039	1.00	19.95
1954	OH	TYR	A	274	57.818	34.418	85.739	1.00	19.26
1955	CE2	TYR	A	274	56.243	35.342	84.189	1.00	20.80
1956	CD2	TYR	A	274	55.014	35.176	83.454	1.00	20.75
1957	C	TYR	A	274	53.756	34.217	80.489	1.00	19.82
1958	O	TYR	A	274	54.612	35.102	80.159	1.00	19.29
1959	N	VAL	A	275	53.783	32.955	80.019	1.00	19.54
1960	CA	VAL	A	275	54.929	32.511	79.219	1.00	19.27
1961	CB	VAL	A	275	56.056	31.925	80.118	1.00	19.54
1962	CG1	VAL	A	275	56.196	30.381	79.969	1.00	18.56
1963	CG2	VAL	A	275	57.409	32.692	79.867	1.00	18.70
1964	C	VAL	A	275	54.633	31.604	78.064	1.00	19.31
1965	O	VAL	A	275	55.572	31.172	77.374	1.00	19.08
1966	N	GLY	A	276	53.345	31.295	77.867	1.00	19.56
1967	CA	GLY	A	276	52.865	30.669	76.645	1.00	19.17
1968	C	GLY	A	276	53.230	29.194	76.447	1.00	18.86
1969	O	GLY	A	276	54.072	28.644	77.161	1.00	19.43
1970	N	PRO	A	277	52.631	28.565	75.442	1.00	18.00
1971	CA	PRO	A	277	52.728	27.112	75.257	1.00	17.16
1972	CB	PRO	A	277	52.052	26.857	73.911	1.00	17.13
1973	CG	PRO	A	277	51.200	28.068	73.631	1.00	18.44
1974	CD	PRO	A	277	51.846	29.221	74.380	1.00	17.97
1975	C	PRO	A	277	54.134	26.618	75.159	1.00	16.43
1976	O	PRO	A	277	55.017	27.234	74.564	1.00	16.54
1977	N	GLN	A	278	54.310	25.431	75.711	1.00	15.81
1978	CA	GLN	A	278	55.630	24.891	75.946	1.00	14.79
1979	CB	GLN	A	278	55.924	24.901	77.470	1.00	15.09
1980	CG	GLN	A	278	56.231	26.341	78.058	1.00	14.91

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
1981	CD	GLN	A	278	57.474	27.011	77.437	1.00	15.99
1982	OE1	GLN	A	278	57.592	28.258	77.377	1.00	17.05
1983	NE2	GLN	A	278	58.418	26.174	76.999	1.00	16.16
1984	C	GLN	A	278	55.680	23.516	75.273	1.00	13.77
1985	O	GLN	A	278	54.820	22.684	75.501	1.00	12.65
1986	N	GLU	A	279	56.668	23.337	74.393	1.00	13.07
1987	CA	GLU	A	279	56.740	22.155	73.529	1.00	12.59
1988	CB	GLU	A	279	57.233	22.513	72.120	1.00	12.19
1989	CG	GLU	A	279	56.955	21.431	71.077	1.00	11.81
1990	CD	GLU	A	279	57.868	21.512	69.843	1.00	12.89
1991	OE1	GLU	A	279	58.535	22.583	69.632	1.00	11.28
1992	OE2	GLU	A	279	57.916	20.500	69.086	1.00	8.96
1993	C	GLU	A	279	57.601	21.061	74.140	1.00	12.21
1994	O	GLU	A	279	58.728	21.279	74.570	1.00	13.01
1995	N	VAL	A	280	57.052	19.872	74.162	1.00	11.45
1996	CA	VAL	A	280	57.644	18.804	74.912	1.00	10.83
1997	CB	VAL	A	280	56.629	17.808	75.301	1.00	9.84
1998	CG1	VAL	A	280	55.523	18.513	76.078	1.00	8.03
1999	CG2	VAL	A	280	57.303	16.651	76.111	1.00	10.14
2000	C	VAL	A	280	58.697	18.117	74.071	1.00	11.20
2001	O	VAL	A	280	58.419	17.602	73.005	1.00	11.34
2002	N	PRO	A	281	59.915	18.077	74.594	1.00	11.58
2003	CA	PRO	A	281	60.997	17.309	73.954	1.00	11.55
2004	CB	PRO	A	281	62.023	17.106	75.100	1.00	11.12
2005	CG	PRO	A	281	61.814	18.328	76.052	1.00	11.43
2006	CD	PRO	A	281	60.348	18.723	75.862	1.00	11.27
2007	C	PRO	A	281	60.537	15.954	73.404	1.00	11.57
2008	O	PRO	A	281	59.845	15.171	74.088	1.00	11.21
2009	N	VAL	A	282	60.924	15.726	72.149	1.00	11.72
2010	CA	VAL	A	282	60.794	14.426	71.481	1.00	11.62
2011	CB	VAL	A	282	60.162	14.537	70.002	1.00	11.82
2012	CG1	VAL	A	282	60.490	15.872	69.250	1.00	11.43
2013	CG2	VAL	A	282	60.500	13.296	69.133	1.00	11.05
2014	C	VAL	A	282	62.152	13.645	71.545	1.00	11.62
2015	O	VAL	A	282	63.192	14.169	71.187	1.00	12.08
2016	N	PRO	A	283	62.152	12.414	72.052	1.00	11.36
2017	CA	PRO	A	283	63.419	11.661	72.180	1.00	10.08
2018	CB	PRO	A	283	62.982	10.226	72.478	1.00	10.70
2019	CG	PRO	A	283	61.466	10.304	72.932	1.00	11.36
2020	CD	PRO	A	283	60.964	11.686	72.548	1.00	11.04
2021	C	PRO	A	283	64.158	11.691	70.868	1.00	9.64
2022	O	PRO	A	283	63.558	11.563	69.819	1.00	8.68
2023	N	ALA	A	284	65.445	11.922	70.926	1.00	8.62
2024	CA	ALA	A	284	66.294	11.940	69.741	1.00	8.96
2025	CB	ALA	A	284	67.806	12.265	70.164	1.00	8.44
2026	C	ALA	A	284	66.233	10.635	68.903	1.00	8.76
2027	O	ALA	A	284	66.365	10.654	67.684	1.00	7.89
2028	N	MET	A	285	66.071	9.504	69.566	1.00	9.75
2029	CA	MET	A	285	65.823	8.217	68.887	1.00	10.78
2030	CB	MET	A	285	65.649	7.120	69.955	1.00	11.82
2031	CG	MET	A	285	65.335	5.731	69.438	1.00	13.95

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2032	SD	MET	A	285	64.810	4.586	70.781	1.00	17.48
2033	CE	MET	A	285	65.222	5.606	72.446	1.00	15.49
2034	C	MET	A	285	64.560	8.290	67.995	1.00	10.40
2035	O	MET	A	285	64.539	7.747	66.879	1.00	10.50
2036	N	ILE	A	286	63.533	8.986	68.496	1.00	9.33
2037	CA	ILE	A	286	62.300	9.268	67.749	1.00	8.87
2038	CB	ILE	A	286	61.229	9.755	68.758	1.00	8.50
2039	CG1	ILE	A	286	60.856	8.630	69.748	1.00	7.80
2040	CD1	ILE	A	286	60.064	7.388	69.097	1.00	5.73
2041	CG2	ILE	A	286	59.991	10.203	68.045	1.00	8.07
2042	C	ILE	A	286	62.443	10.256	66.528	1.00	8.64
2043	O	ILE	A	286	62.087	9.915	65.401	1.00	8.37
2044	N	ALA	A	287	62.957	11.459	66.743	1.00	8.37
2045	CA	ALA	A	287	63.057	12.463	65.690	1.00	8.43
2046	CB	ALA	A	287	63.494	13.783	66.297	1.00	8.64
2047	C	ALA	A	287	63.943	12.099	64.471	1.00	8.78
2048	O	ALA	A	287	63.852	12.752	63.450	1.00	7.95
2049	N	SER	A	288	64.754	11.047	64.578	1.00	9.93
2050	CA	SER	A	288	65.660	10.588	63.499	1.00	11.32
2051	CB	SER	A	288	66.476	9.292	63.913	1.00	11.51
2052	OG	SER	A	288	65.798	8.021	63.736	1.00	12.01
2053	C	SER	A	288	64.930	10.422	62.154	1.00	11.81
2054	O	SER	A	288	65.382	10.924	61.136	1.00	12.02
2055	N	SER	A	289	63.809	9.704	62.152	1.00	12.43
2056	CA	SER	A	289	62.819	9.805	61.044	1.00	12.76
2057	CB	SER	A	289	62.836	8.553	60.136	1.00	13.25
2058	OG	SER	A	289	63.045	7.361	60.869	1.00	13.82
2059	C	SER	A	289	61.413	10.090	61.572	1.00	12.54
2060	O	SER	A	289	61.226	10.192	62.786	1.00	12.33
2061	N	ASP	A	290	60.439	10.226	60.645	1.00	13.01
2062	CA	ASP	A	290	58.993	10.473	60.969	1.00	12.13
2063	CB	ASP	A	290	57.979	10.006	59.883	1.00	12.34
2064	CG	ASP	A	290	58.183	10.582	58.547	1.00	10.09
2065	OD1	ASP	A	290	58.565	11.758	58.428	1.00	10.13
2066	OD2	ASP	A	290	57.906	9.885	57.550	1.00	7.49
2067	C	ASP	A	290	58.490	9.664	62.150	1.00	12.14
2068	O	ASP	A	290	58.909	8.498	62.406	1.00	12.12
2069	N	TYR	A	291	57.449	10.210	62.760	1.00	11.31
2070	CA	TYR	A	291	56.987	9.606	63.976	1.00	9.83
2071	CB	TYR	A	291	57.930	9.949	65.144	1.00	9.21
2072	CG	TYR	A	291	57.996	11.418	65.560	1.00	5.44
2073	CD1	TYR	A	291	58.936	12.294	65.006	1.00	2.00
2074	CE1	TYR	A	291	58.978	13.568	65.402	1.00	2.00
2075	CZ	TYR	A	291	58.082	14.015	66.374	1.00	2.00
2076	OH	TYR	A	291	58.082	15.316	66.816	1.00	2.70
2077	CE2	TYR	A	291	57.165	13.212	66.915	1.00	2.00
2078	CD2	TYR	A	291	57.114	11.919	66.523	1.00	2.07
2079	C	TYR	A	291	55.548	9.956	64.297	1.00	10.09
2080	O	TYR	A	291	55.020	11.003	63.898	1.00	9.53
2081	N	TYR	A	292	54.932	8.998	64.977	1.00	9.32
2082	CA	TYR	A	292	53.613	9.179	65.509	1.00	10.29

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2083	CB	TYR	A	292	52.704	7.998	65.273	1.00	9.65
2084	CG	TYR	A	292	52.690	7.508	63.884	1.00	10.17
2085	CD1	TYR	A	292	52.047	8.204	62.888	1.00	10.19
2086	CE1	TYR	A	292	51.981	7.722	61.600	1.00	10.47
2087	CZ	TYR	A	292	52.597	6.528	61.282	1.00	11.56
2088	OH	TYR	A	292	52.603	6.012	60.002	1.00	11.74
2089	CE2	TYR	A	292	53.241	5.812	62.250	1.00	13.14
2090	CD2	TYR	A	292	53.272	6.298	63.566	1.00	12.76
2091	C	TYR	A	292	53.788	9.331	66.970	1.00	9.66
2092	O	TYR	A	292	54.638	8.684	67.583	1.00	10.26
2093	N	PHE	A	293	52.994	10.235	67.498	1.00	9.98
2094	CA	PHE	A	293	52.697	10.278	68.904	1.00	10.69
2095	CB	PHE	A	293	52.378	11.725	69.341	1.00	10.61
2096	CG	PHE	A	293	51.223	11.850	70.205	1.00	7.03
2097	CD1	PHE	A	293	49.984	11.920	69.667	1.00	5.16
2098	CE1	PHE	A	293	48.932	11.988	70.467	1.00	6.47
2099	CZ	PHE	A	293	49.113	11.989	71.872	1.00	4.50
2100	CE2	PHE	A	293	50.359	11.917	72.403	1.00	3.71
2101	CD2	PHE	A	293	51.392	11.835	71.575	1.00	3.92
2102	C	PHE	A	293	51.524	9.322	68.975	1.00	11.09
2103	O	PHE	A	293	50.842	9.067	67.984	1.00	11.24
2104	N	SER	A	294	51.340	8.763	70.153	1.00	12.08
2105	CA	SER	A	294	50.626	7.529	70.310	1.00	12.80
2106	CB	SER	A	294	51.624	6.399	70.610	1.00	12.58
2107	OG	SER	A	294	50.929	5.271	71.176	1.00	16.81
2108	C	SER	A	294	49.558	7.571	71.382	1.00	12.70
2109	O	SER	A	294	48.479	6.953	71.229	1.00	13.71
2110	N	TRP	A	295	49.891	8.218	72.473	1.00	12.62
2111	CA	TRP	A	295	49.022	8.385	73.640	1.00	13.84
2112	CB	TRP	A	295	48.498	7.058	74.243	1.00	13.96
2113	CG	TRP	A	295	47.377	7.379	75.114	1.00	17.31
2114	CD1	TRP	A	295	47.350	7.287	76.449	1.00	19.53
2115	NE1	TRP	A	295	46.148	7.756	76.930	1.00	20.89
2116	CE2	TRP	A	295	45.374	8.185	75.891	1.00	21.73
2117	CD2	TRP	A	295	46.130	7.990	74.722	1.00	20.26
2118	CE3	TRP	A	295	45.557	8.346	73.491	1.00	21.60
2119	CZ3	TRP	A	295	44.257	8.918	73.488	1.00	21.02
2120	CH2	TRP	A	295	43.547	9.108	74.684	1.00	22.74
2121	CZ2	TRP	A	295	44.077	8.745	75.886	1.00	22.19
2122	C	TRP	A	295	49.780	9.170	74.728	1.00	14.24
2123	O	TRP	A	295	51.024	9.095	74.808	1.00	15.37
2124	N	LEU	A	296	49.050	9.951	75.531	1.00	14.19
2125	CA	LEU	A	296	49.690	10.630	76.653	1.00	14.15
2126	CB	LEU	A	296	50.004	12.119	76.396	1.00	14.05
2127	CG	LEU	A	296	49.911	13.264	77.448	1.00	12.71
2128	CD1	LEU	A	296	50.564	14.593	76.926	1.00	7.43
2129	CD2	LEU	A	296	48.448	13.499	77.977	1.00	12.04
2130	C	LEU	A	296	48.808	10.433	77.813	1.00	14.72
2131	O	LEU	A	296	47.579	10.271	77.738	1.00	14.48
2132	N	THR	A	297	49.510	10.395	78.912	1.00	15.64
2133	CA	THR	A	297	48.930	10.056	80.174	1.00	16.89

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2134	CB	THR	A	297	49.036	8.475	80.494	1.00	16.21
2135	OG1	THR	A	297	49.874	8.274	81.630	1.00	17.21
2136	CG2	THR	A	297	49.717	7.633	79.379	1.00	12.58
2137	C	THR	A	297	49.629	10.988	81.211	1.00	18.13
2138	O	THR	A	297	50.853	11.228	81.189	1.00	17.85
2139	N	TRP	A	298	48.808	11.540	82.086	1.00	18.93
2140	CA	TRP	A	298	49.288	12.370	83.146	1.00	18.75
2141	CB	TRP	A	298	48.224	13.379	83.442	1.00	18.70
2142	CG	TRP	A	298	48.308	14.501	82.572	1.00	19.22
2143	CD1	TRP	A	298	47.443	14.819	81.569	1.00	19.25
2144	NE1	TRP	A	298	47.851	15.983	80.970	1.00	18.71
2145	CE2	TRP	A	298	48.988	16.445	81.592	1.00	18.00
2146	CD2	TRP	A	298	49.312	15.525	82.592	1.00	15.98
2147	CE3	TRP	A	298	50.435	15.744	83.345	1.00	14.73
2148	CZ3	TRP	A	298	51.198	16.869	83.101	1.00	18.52
2149	CH2	TRP	A	298	50.866	17.778	82.091	1.00	18.42
2150	CZ2	TRP	A	298	49.760	17.586	81.329	1.00	18.59
2151	C	TRP	A	298	49.440	11.521	84.363	1.00	19.53
2152	O	TRP	A	298	48.593	10.675	84.595	1.00	20.10
2153	N	VAL	A	299	50.491	11.763	85.156	1.00	19.51
2154	CA	VAL	A	299	50.567	11.168	86.505	1.00	20.08
2155	CB	VAL	A	299	51.765	10.116	86.670	1.00	19.64
2156	CG1	VAL	A	299	52.363	9.701	85.302	1.00	19.24
2157	CG2	VAL	A	299	52.868	10.642	87.471	1.00	19.22
2158	C	VAL	A	299	50.483	12.348	87.515	1.00	20.12
2159	O	VAL	A	299	49.467	12.508	88.179	1.00	21.31
2160	N	THR	A	300	51.465	13.229	87.594	1.00	19.16
2161	CA	THR	A	300	51.281	14.361	88.493	1.00	18.99
2162	CB	THR	A	300	52.401	14.483	89.521	1.00	18.84
2163	OG1	THR	A	300	53.459	15.257	88.948	1.00	19.14
2164	CG2	THR	A	300	53.013	13.117	89.905	1.00	17.75
2165	C	THR	A	300	51.185	15.635	87.682	1.00	18.81
2166	O	THR	A	300	51.190	15.588	86.450	1.00	19.01
2167	N	ASP	A	301	51.075	16.765	88.361	1.00	18.52
2168	CA	ASP	A	301	50.942	18.020	87.648	1.00	18.16
2169	CB	ASP	A	301	50.115	19.039	88.419	1.00	18.20
2170	CG	ASP	A	301	48.713	18.555	88.634	1.00	18.49
2171	OD1	ASP	A	301	48.459	17.841	89.599	1.00	22.77
2172	OD2	ASP	A	301	47.781	18.779	87.880	1.00	17.91
2173	C	ASP	A	301	52.301	18.558	87.267	1.00	17.88
2174	O	ASP	A	301	52.363	19.410	86.407	1.00	18.34
2175	N	GLU	A	302	53.366	18.054	87.883	1.00	17.56
2176	CA	GLU	A	302	54.741	18.341	87.491	1.00	16.92
2177	CB	GLU	A	302	55.614	18.516	88.751	1.00	17.91
2178	CG	GLU	A	302	55.205	19.611	89.749	1.00	19.43
2179	CD	GLU	A	302	53.807	19.417	90.328	1.00	20.29
2180	OE1	GLU	A	302	52.983	20.329	90.129	1.00	20.95
2181	OE2	GLU	A	302	53.535	18.365	90.973	1.00	19.67
2182	C	GLU	A	302	55.317	17.164	86.667	1.00	16.02
2183	O	GLU	A	302	56.526	17.064	86.475	1.00	15.56
2184	N	ARG	A	303	54.462	16.257	86.196	1.00	15.37

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2185	CA	ARG	A	303	54.936	14.998	85.592	1.00	14.80
2186	CB	ARG	A	303	55.282	13.970	86.682	1.00	15.84
2187	CG	ARG	A	303	56.576	13.149	86.446	1.00	17.04
2188	CD	ARG	A	303	56.694	11.839	87.240	1.00	17.40
2189	NE	ARG	A	303	57.928	11.782	88.037	1.00	17.65
2190	CZ	ARG	A	303	59.179	11.698	87.550	1.00	16.23
2191	NH1	ARG	A	303	60.201	11.646	88.408	1.00	13.53
2192	NH2	ARG	A	303	59.425	11.694	86.232	1.00	13.39
2193	C	ARG	A	303	53.941	14.348	84.647	1.00	14.10
2194	O	ARG	A	303	52.732	14.372	84.881	1.00	14.66
2195	N	VAL	A	304	54.477	13.681	83.627	1.00	12.90
2196	CA	VAL	A	304	53.698	13.295	82.439	1.00	10.73
2197	CB	VAL	A	304	53.450	14.554	81.572	1.00	10.55
2198	CG1	VAL	A	304	52.455	14.309	80.500	1.00	9.31
2199	CG2	VAL	A	304	54.774	15.093	81.009	1.00	10.13
2200	C	VAL	A	304	54.405	12.198	81.609	1.00	10.22
2201	O	VAL	A	304	55.638	12.049	81.605	1.00	9.76
2202	N	CYS	A	305	53.606	11.384	80.962	1.00	9.47
2203	CA	CYS	A	305	54.131	10.375	80.090	1.00	10.06
2204	CB	CYS	A	305	53.657	8.994	80.552	1.00	10.10
2205	SG	CYS	A	305	54.680	7.600	79.969	1.00	11.27
2206	C	CYS	A	305	53.639	10.668	78.667	1.00	10.74
2207	O	CYS	A	305	52.441	10.900	78.437	1.00	11.65
2208	N	LEU	A	306	54.586	10.717	77.734	1.00	10.26
2209	CA	LEU	A	306	54.278	10.646	76.327	1.00	9.75
2210	CB	LEU	A	306	54.977	11.744	75.532	1.00	9.33
2211	CG	LEU	A	306	54.207	13.038	75.692	1.00	9.35
2212	CD1	LEU	A	306	54.203	13.488	77.190	1.00	4.35
2213	CD2	LEU	A	306	54.765	14.084	74.753	1.00	9.66
2214	C	LEU	A	306	54.732	9.312	75.807	1.00	9.83
2215	O	LEU	A	306	55.688	8.728	76.278	1.00	9.30
2216	N	GLN	A	307	54.008	8.839	74.812	1.00	10.76
2217	CA	GLN	A	307	54.321	7.617	74.095	1.00	10.90
2218	CB	GLN	A	307	53.233	6.528	74.340	1.00	10.35
2219	CG	GLN	A	307	53.045	6.193	75.828	1.00	8.48
2220	CD	GLN	A	307	52.359	4.847	76.080	1.00	7.38
2221	OE1	GLN	A	307	51.166	4.821	76.490	1.00	4.38
2222	NE2	GLN	A	307	53.128	3.722	75.916	1.00	4.70
2223	C	GLN	A	307	54.444	8.034	72.635	1.00	11.50
2224	O	GLN	A	307	53.705	8.886	72.171	1.00	12.60
2225	N	TRP	A	308	55.394	7.414	71.957	1.00	12.17
2226	CA	TRP	A	308	55.797	7.719	70.615	1.00	12.17
2227	CB	TRP	A	308	57.118	8.454	70.675	1.00	10.89
2228	CG	TRP	A	308	57.146	9.809	71.446	1.00	11.95
2229	CD1	TRP	A	308	57.778	10.026	72.643	1.00	11.68
2230	NE1	TRP	A	308	57.668	11.349	73.027	1.00	12.74
2231	CE2	TRP	A	308	56.986	12.050	72.072	1.00	13.42
2232	CD2	TRP	A	308	56.636	11.133	71.047	1.00	12.05
2233	CE3	TRP	A	308	55.924	11.621	69.960	1.00	12.51
2234	CZ3	TRP	A	308	55.580	13.018	69.930	1.00	15.55
2235	CH2	TRP	A	308	55.959	13.880	70.954	1.00	14.66

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2236	CZ2	TRP	A	308	56.659	13.415	72.030	1.00	14.70
2237	C	TRP	A	308	55.945	6.414	69.790	1.00	12.63
2238	O	TRP	A	308	56.127	5.346	70.337	1.00	13.33
2239	N	LEU	A	309	55.920	6.492	68.468	1.00	12.64
2240	CA	LEU	A	309	55.973	5.275	67.652	1.00	13.01
2241	CB	LEU	A	309	54.566	4.788	67.278	1.00	13.64
2242	CG	LEU	A	309	54.219	3.352	67.636	1.00	15.48
2243	CD1	LEU	A	309	52.754	3.073	67.233	1.00	17.67
2244	CD2	LEU	A	309	55.180	2.321	67.000	1.00	17.53
2245	C	LEU	A	309	56.765	5.559	66.408	1.00	12.71
2246	O	LEU	A	309	56.332	6.235	65.493	1.00	12.40
2247	N	LYS	A	310	57.986	5.082	66.374	1.00	13.08
2248	CA	LYS	A	310	58.762	5.249	65.152	1.00	13.62
2249	CB	LYS	A	310	60.087	4.445	65.238	1.00	13.36
2250	CG	LYS	A	310	61.232	5.071	66.042	1.00	12.07
2251	CD	LYS	A	310	62.629	4.515	65.593	1.00	12.65
2252	CE	LYS	A	310	63.151	5.106	64.244	1.00	13.87
2253	NZ	LYS	A	310	62.971	6.609	64.124	1.00	13.90
2254	C	LYS	A	310	57.824	4.752	63.994	1.00	14.15
2255	O	LYS	A	310	57.238	3.615	64.072	1.00	14.36
2256	N	ARG	A	311	57.626	5.620	62.987	1.00	13.83
2257	CA	ARG	A	311	56.826	5.266	61.817	1.00	14.54
2258	CB	ARG	A	311	57.157	6.165	60.658	1.00	14.97
2259	CG	ARG	A	311	56.387	5.829	59.341	1.00	16.18
2260	CD	ARG	A	311	56.739	6.749	58.193	1.00	17.21
2261	NE	ARG	A	311	55.618	7.562	57.721	1.00	19.68
2262	CZ	ARG	A	311	55.008	7.415	56.537	1.00	21.13
2263	NH1	ARG	A	311	55.324	6.468	55.680	1.00	19.20
2264	NH2	ARG	A	311	54.022	8.216	56.205	1.00	24.44
2265	C	ARG	A	311	57.067	3.841	61.340	1.00	14.62
2266	O	ARG	A	311	56.144	3.163	60.859	1.00	15.67
2267	N	VAL	A	312	58.304	3.395	61.447	1.00	13.52
2268	CA	VAL	A	312	58.637	2.021	61.169	1.00	13.53
2269	CB	VAL	A	312	60.159	1.831	60.792	1.00	14.22
2270	CG1	VAL	A	312	60.303	0.790	59.626	1.00	14.10
2271	CG2	VAL	A	312	60.905	3.232	60.462	1.00	13.33
2272	C	VAL	A	312	58.281	1.320	62.470	1.00	13.27
2273	O	VAL	A	312	59.099	1.266	63.349	1.00	12.36
2274	N	GLN	A	313	57.061	0.778	62.557	1.00	13.19
2275	CA	GLN	A	313	56.304	0.666	63.808	1.00	12.60
2276	CB	GLN	A	313	54.788	0.553	63.497	1.00	13.33
2277	CG	GLN	A	313	54.009	1.881	63.954	1.00	15.55
2278	CD	GLN	A	313	52.566	2.118	63.399	1.00	18.36
2279	OE1	GLN	A	313	51.561	1.778	64.066	1.00	19.76
2280	NE2	GLN	A	313	52.474	2.796	62.241	1.00	19.28
2281	C	GLN	A	313	56.774	-0.420	64.806	1.00	11.95
2282	O	GLN	A	313	56.032	-0.780	65.726	1.00	11.90
2283	N	ASN	A	314	58.013	-0.914	64.648	1.00	10.79
2284	CA	ASN	A	314	58.545	-1.941	65.512	1.00	8.38
2285	CB	ASN	A	314	59.499	-2.942	64.813	1.00	7.86
2286	CG	ASN	A	314	60.621	-2.301	64.041	1.00	6.38

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2287	OD1	ASN	A	314	61.217	-1.342	64.442	1.00	7.65
2288	ND2	ASN	A	314	60.922	-2.869	62.919	1.00	8.89
2289	C	ASN	A	314	59.160	-1.406	66.754	1.00	8.27
2290	O	ASN	A	314	59.595	-2.208	67.574	1.00	7.97
2291	N	VAL	A	315	59.216	-0.088	66.917	1.00	7.36
2292	CA	VAL	A	315	59.797	0.442	68.141	1.00	8.13
2293	CB	VAL	A	315	61.390	0.725	68.089	1.00	8.18
2294	CG1	VAL	A	315	61.834	1.711	69.223	1.00	7.69
2295	CG2	VAL	A	315	61.900	1.213	66.736	1.00	10.59
2296	C	VAL	A	315	59.102	1.660	68.656	1.00	7.95
2297	O	VAL	A	315	58.917	2.620	67.939	1.00	8.00
2298	N	SER	A	316	58.773	1.615	69.944	1.00	8.39
2299	CA	SER	A	316	58.025	2.679	70.622	1.00	8.32
2300	CB	SER	A	316	56.727	2.121	71.123	1.00	6.94
2301	OG	SER	A	316	56.473	2.607	72.388	1.00	7.98
2302	C	SER	A	316	58.804	3.196	71.822	1.00	7.98
2303	O	SER	A	316	59.417	2.424	72.515	1.00	9.30
2304	N	VAL	A	317	58.753	4.493	72.071	1.00	7.84
2305	CA	VAL	A	317	59.429	5.134	73.189	1.00	6.85
2306	CB	VAL	A	317	60.376	6.195	72.662	1.00	6.77
2307	CG1	VAL	A	317	61.349	5.580	71.638	1.00	6.49
2308	CG2	VAL	A	317	61.134	6.881	73.846	1.00	6.41
2309	C	VAL	A	317	58.450	5.775	74.208	1.00	6.70
2310	O	VAL	A	317	57.733	6.713	73.907	1.00	7.14
2311	N	LEU	A	318	58.413	5.228	75.401	1.00	5.33
2312	CA	LEU	A	318	57.649	5.784	76.478	1.00	5.26
2313	CB	LEU	A	318	57.168	4.667	77.417	1.00	3.75
2314	CG	LEU	A	318	56.446	5.232	78.645	1.00	2.77
2315	CD1	LEU	A	318	57.410	5.550	79.785	1.00	2.00
2316	CD2	LEU	A	318	55.441	4.294	79.176	1.00	2.00
2317	C	LEU	A	318	58.600	6.769	77.154	1.00	5.72
2318	O	LEU	A	318	59.723	6.412	77.516	1.00	5.84
2319	N	SER	A	319	58.139	8.008	77.322	1.00	6.58
2320	CA	SER	A	319	58.949	9.114	77.801	1.00	7.85
2321	CB	SER	A	319	59.171	10.181	76.720	1.00	7.09
2322	OG	SER	A	319	59.816	11.342	77.307	1.00	9.02
2323	C	SER	A	319	58.310	9.791	78.984	1.00	8.73
2324	O	SER	A	319	57.184	10.253	78.906	1.00	8.98
2325	N	ILE	A	320	59.069	9.923	80.077	1.00	11.02
2326	CA	ILE	A	320	58.558	10.695	81.209	1.00	11.83
2327	CB	ILE	A	320	58.566	9.890	82.485	1.00	11.67
2328	CG1	ILE	A	320	58.284	8.402	82.159	1.00	11.82
2329	CD1	ILE	A	320	57.910	7.476	83.370	1.00	10.55
2330	CG2	ILE	A	320	57.449	10.416	83.385	1.00	13.21
2331	C	ILE	A	320	59.232	12.032	81.328	1.00	11.96
2332	O	ILE	A	320	60.418	12.127	81.106	1.00	11.50
2333	N	CYS	A	321	58.432	13.067	81.598	1.00	13.48
2334	CA	CYS	A	321	58.925	14.438	81.742	1.00	15.68
2335	CB	CYS	A	321	58.498	15.350	80.583	1.00	15.99
2336	SG	CYS	A	321	58.659	14.529	79.014	1.00	18.45
2337	C	CYS	A	321	58.447	15.126	82.994	1.00	16.30

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2338	O	CYS	A	321	57.324	14.917	83.456	1.00	17.49
2339	N	ASP	A	322	59.298	16.020	83.473	1.00	16.43
2340	CA	ASP	A	322	59.050	16.775	84.670	1.00	16.77
2341	CB	ASP	A	322	60.073	16.396	85.772	1.00	16.93
2342	CG	ASP	A	322	60.189	14.885	85.958	1.00	16.75
2343	OD1	ASP	A	322	59.254	14.294	86.547	1.00	17.82
2344	OD2	ASP	A	322	61.155	14.219	85.521	1.00	14.51
2345	C	ASP	A	322	59.154	18.265	84.321	1.00	16.89
2346	O	ASP	A	322	60.197	18.751	83.814	1.00	17.09
2347	N	PHE	A	323	58.050	18.964	84.599	1.00	16.57
2348	CA	PHE	A	323	58.052	20.406	84.770	1.00	16.11
2349	CB	PHE	A	323	56.671	20.819	85.242	1.00	15.52
2350	CG	PHE	A	323	56.509	22.276	85.244	1.00	13.92
2351	CD1	PHE	A	323	56.571	23.012	86.423	1.00	9.47
2352	CE1	PHE	A	323	56.419	24.396	86.386	1.00	8.61
2353	CZ	PHE	A	323	56.228	25.042	85.166	1.00	7.79
2354	CE2	PHE	A	323	56.188	24.313	83.970	1.00	7.38
2355	CD2	PHE	A	323	56.328	22.939	84.004	1.00	10.91
2356	C	PHE	A	323	59.137	20.958	85.758	1.00	16.47
2357	O	PHE	A	323	59.208	20.516	86.917	1.00	17.32
2358	N	ARG	A	324	59.970	21.907	85.305	1.00	16.46
2359	CA	ARG	A	324	60.967	22.585	86.166	1.00	16.58
2360	CB	ARG	A	324	62.406	22.490	85.613	1.00	16.77
2361	CG	ARG	A	324	62.560	22.685	84.094	1.00	16.71
2362	CD	ARG	A	324	63.933	22.282	83.519	1.00	16.93
2363	NE	ARG	A	324	65.049	23.079	84.063	1.00	16.58
2364	CZ	ARG	A	324	66.030	23.648	83.337	1.00	17.71
2365	NH1	ARG	A	324	66.988	24.340	83.964	1.00	16.18
2366	NH2	ARG	A	324	66.069	23.552	82.001	1.00	17.48
2367	C	ARG	A	324	60.597	24.048	86.415	1.00	16.81
2368	O	ARG	A	324	60.222	24.769	85.486	1.00	16.36
2369	N	GLU	A	325	60.755	24.483	87.669	1.00	17.21
2370	CA	GLU	A	325	60.170	25.733	88.170	1.00	17.85
2371	CB	GLU	A	325	60.136	25.693	89.715	1.00	17.77
2372	CG	GLU	A	325	58.897	24.978	90.260	1.00	18.07
2373	CD	GLU	A	325	57.640	25.763	89.944	1.00	19.21
2374	OE1	GLU	A	325	57.754	27.015	89.899	1.00	20.61
2375	OE2	GLU	A	325	56.574	25.165	89.702	1.00	16.54
2376	C	GLU	A	325	60.840	27.023	87.643	1.00	18.22
2377	O	GLU	A	325	60.153	27.941	87.185	1.00	18.04
2378	N	ASP	A	326	62.171	27.067	87.741	1.00	18.91
2379	CA	ASP	A	326	63.038	28.171	87.251	1.00	19.74
2380	CB	ASP	A	326	64.534	27.798	87.455	1.00	20.04
2381	CG	ASP	A	326	64.876	26.332	86.998	1.00	20.35
2382	OD1	ASP	A	326	63.987	25.622	86.450	1.00	22.89
2383	OD2	ASP	A	326	66.005	25.800	87.142	1.00	19.43
2384	C	ASP	A	326	62.853	28.584	85.771	1.00	20.16
2385	O	ASP	A	326	62.752	29.787	85.458	1.00	20.46
2386	N	TRP	A	327	62.841	27.582	84.881	1.00	20.39
2387	CA	TRP	A	327	62.897	27.786	83.427	1.00	20.70
2388	CB	TRP	A	327	64.083	26.965	82.800	1.00	21.26

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2389	CG	TRP	A	327	65.491	27.762	82.750	1.00	22.92
2390	CD1	TRP	A	327	66.137	28.413	83.809	1.00	24.18
2391	NE1	TRP	A	327	67.309	29.006	83.381	1.00	24.84
2392	CE2	TRP	A	327	67.471	28.781	82.031	1.00	25.85
2393	CD2	TRP	A	327	66.346	27.984	81.590	1.00	25.69
2394	CE3	TRP	A	327	66.279	27.603	80.215	1.00	26.61
2395	CZ3	TRP	A	327	67.331	28.030	79.323	1.00	27.00
2396	CH2	TRP	A	327	68.434	28.813	79.810	1.00	27.25
2397	CZ2	TRP	A	327	68.524	29.192	81.148	1.00	26.31
2398	C	TRP	A	327	61.522	27.478	82.786	1.00	20.02
2399	O	TRP	A	327	61.402	27.518	81.568	1.00	20.00
2400	N	GLN	A	328	60.517	27.203	83.642	1.00	19.55
2401	CA	GLN	A	328	59.087	26.902	83.329	1.00	19.48
2402	CB	GLN	A	328	58.270	28.214	83.289	1.00	19.70
2403	CG	GLN	A	328	58.229	28.998	84.621	1.00	19.55
2404	CD	GLN	A	328	57.246	28.424	85.650	1.00	19.47
2405	OE1	GLN	A	328	56.032	28.431	85.451	1.00	17.74
2406	NE2	GLN	A	328	57.782	27.940	86.755	1.00	20.44
2407	C	GLN	A	328	58.704	25.973	82.115	1.00	19.43
2408	O	GLN	A	328	57.535	25.963	81.658	1.00	19.06
2409	N	THR	A	329	59.674	25.178	81.641	1.00	19.53
2410	CA	THR	A	329	59.471	24.276	80.476	1.00	19.99
2411	CB	THR	A	329	60.680	24.317	79.466	1.00	19.97
2412	OG1	THR	A	329	60.362	23.575	78.279	1.00	20.46
2413	CG2	THR	A	329	61.916	23.592	80.024	1.00	20.68
2414	C	THR	A	329	59.291	22.868	80.981	1.00	19.89
2415	O	THR	A	329	59.111	22.672	82.173	1.00	19.69
2416	N	TRP	A	330	59.306	21.884	80.069	1.00	20.43
2417	CA	TRP	A	330	59.236	20.466	80.402	1.00	20.25
2418	CB	TRP	A	330	57.859	19.900	80.049	1.00	20.45
2419	CG	TRP	A	330	56.744	20.486	80.860	1.00	21.52
2420	CD1	TRP	A	330	56.194	21.727	80.718	1.00	21.92
2421	NE1	TRP	A	330	55.193	21.911	81.642	1.00	24.80
2422	CE2	TRP	A	330	55.083	20.772	82.404	1.00	24.92
2423	CD2	TRP	A	330	56.045	19.854	81.939	1.00	24.07
2424	CE3	TRP	A	330	56.139	18.603	82.554	1.00	25.29
2425	CZ3	TRP	A	330	55.284	18.313	83.600	1.00	26.93
2426	CH2	TRP	A	330	54.331	19.247	84.045	1.00	27.22
2427	CZ2	TRP	A	330	54.219	20.480	83.458	1.00	25.33
2428	C	TRP	A	330	60.516	19.742	79.996	1.00	19.83
2429	O	TRP	A	330	61.219	20.169	79.016	1.00	19.61
2430	N	ASP	A	331	60.986	18.719	80.755	1.00	20.02
2431	CA	ASP	A	331	62.286	18.034	80.607	1.00	19.95
2432	CB	ASP	A	331	63.153	18.359	81.821	1.00	20.18
2433	CG	ASP	A	331	64.580	17.846	81.685	1.00	21.37
2434	OD1	ASP	A	331	65.464	18.720	81.633	1.00	20.97
2435	OD2	ASP	A	331	64.912	16.626	81.635	1.00	20.97
2436	C	ASP	A	331	62.126	16.526	80.575	1.00	19.74
2437	O	ASP	A	331	61.544	15.964	81.481	1.00	19.27
2438	N	CYS	A	332	62.688	15.866	79.572	1.00	19.50
2439	CA	CYS	A	332	62.549	14.407	79.476	1.00	19.77

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2440	CB	CYS	A	332	61.644	14.016	78.271	1.00	19.54
2441	SG	CYS	A	332	60.237	15.158	77.926	1.00	20.44
2442	C	CYS	A	332	63.927	13.684	79.424	1.00	19.58
2443	O	CYS	A	332	64.552	13.618	78.377	1.00	20.24
2444	N	PRO	A	333	64.396	13.128	80.540	1.00	19.33
2445	CA	PRO	A	333	65.721	12.493	80.567	1.00	19.20
2446	CB	PRO	A	333	65.898	12.109	82.054	1.00	19.70
2447	CG	PRO	A	333	64.869	12.907	82.825	1.00	19.48
2448	CD	PRO	A	333	63.728	13.063	81.853	1.00	19.10
2449	C	PRO	A	333	65.887	11.237	79.691	1.00	19.01
2450	O	PRO	A	333	65.020	10.358	79.707	1.00	18.73
2451	N	LYS	A	334	67.013	11.145	78.971	1.00	18.83
2452	CA	LYS	A	334	67.436	9.877	78.320	1.00	18.43
2453	CB	LYS	A	334	68.809	9.984	77.574	1.00	18.56
2454	CG	LYS	A	334	69.905	11.036	78.099	1.00	18.86
2455	CD	LYS	A	334	69.821	12.395	77.297	1.00	18.09
2456	CE	LYS	A	334	71.167	12.904	76.747	1.00	17.81
2457	NZ	LYS	A	334	72.078	13.353	77.867	1.00	17.30
2458	C	LYS	A	334	67.455	8.681	79.290	1.00	18.25
2459	O	LYS	A	334	67.395	7.537	78.827	1.00	17.82
2460	N	THR	A	335	67.569	8.957	80.611	1.00	18.14
2461	CA	THR	A	335	67.347	7.952	81.685	1.00	18.15
2462	CB	THR	A	335	67.824	8.443	83.098	1.00	18.71
2463	OG1	THR	A	335	66.720	9.100	83.753	1.00	20.04
2464	CG2	THR	A	335	69.045	9.469	83.085	1.00	18.29
2465	C	THR	A	335	65.872	7.484	81.865	1.00	17.92
2466	O	THR	A	335	65.641	6.359	82.299	1.00	17.37
2467	N	GLN	A	336	64.898	8.359	81.569	1.00	17.85
2468	CA	GLN	A	336	63.470	8.051	81.712	1.00	17.63
2469	CB	GLN	A	336	62.778	9.215	82.420	1.00	17.56
2470	CG	GLN	A	336	63.405	9.574	83.747	1.00	18.60
2471	CD	GLN	A	336	62.555	10.529	84.583	1.00	19.93
2472	OE1	GLN	A	336	62.072	11.546	84.088	1.00	21.77
2473	NE2	GLN	A	336	62.390	10.210	85.853	1.00	20.06
2474	C	GLN	A	336	62.763	7.720	80.356	1.00	18.09
2475	O	GLN	A	336	61.510	7.684	80.264	1.00	16.86
2476	N	GLU	A	337	63.601	7.487	79.330	1.00	18.39
2477	CA	GLU	A	337	63.202	6.941	78.027	1.00	18.88
2478	CB	GLU	A	337	64.226	7.319	76.942	1.00	19.06
2479	CG	GLU	A	337	64.026	8.668	76.264	1.00	18.72
2480	CD	GLU	A	337	65.129	8.894	75.267	1.00	22.93
2481	OE1	GLU	A	337	65.580	7.899	74.609	1.00	24.17
2482	OE2	GLU	A	337	65.513	10.080	75.138	1.00	24.50
2483	C	GLU	A	337	63.174	5.419	78.090	1.00	18.98
2484	O	GLU	A	337	64.192	4.760	78.275	1.00	19.14
2485	N	HIS	A	338	62.000	4.872	77.874	1.00	19.30
2486	CA	HIS	A	338	61.738	3.469	78.116	1.00	19.68
2487	CB	HIS	A	338	60.627	3.318	79.189	1.00	19.55
2488	CG	HIS	A	338	61.080	3.640	80.605	1.00	21.91
2489	ND1	HIS	A	338	60.220	3.639	81.687	1.00	23.61
2490	CE1	HIS	A	338	60.901	3.931	82.787	1.00	22.08

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2491	NE2	HIS	A	338	62.168	4.123	82.464	1.00	21.63
2492	CD2	HIS	A	338	62.309	3.946	81.110	1.00	22.11
2493	C	HIS	A	338	61.384	2.908	76.732	1.00	19.58
2494	O	HIS	A	338	60.372	3.255	76.128	1.00	19.93
2495	N	ILE	A	339	62.289	2.112	76.193	1.00	19.33
2496	CA	ILE	A	339	62.130	1.551	74.866	1.00	19.18
2497	CB	ILE	A	339	63.540	1.216	74.250	1.00	19.60
2498	CG1	ILE	A	339	64.214	2.463	73.665	1.00	19.03
2499	CD1	ILE	A	339	65.716	2.263	73.296	1.00	18.95
2500	CG2	ILE	A	339	63.416	0.172	73.142	1.00	19.51
2501	C	ILE	A	339	61.278	0.280	74.947	1.00	18.94
2502	O	ILE	A	339	61.530	-0.612	75.801	1.00	19.97
2503	N	GLU	A	340	60.289	0.158	74.063	1.00	17.84
2504	CA	GLU	A	340	59.611	-1.115	73.896	1.00	16.89
2505	CB	GLU	A	340	58.194	-1.013	74.371	1.00	15.59
2506	CG	GLU	A	340	57.402	-2.208	73.907	1.00	16.58
2507	CD	GLU	A	340	56.027	-2.250	74.532	1.00	19.66
2508	OE1	GLU	A	340	54.993	-2.278	73.786	1.00	22.04
2509	OE2	GLU	A	340	55.968	-2.233	75.776	1.00	19.08
2510	C	GLU	A	340	59.634	-1.468	72.438	1.00	16.57
2511	O	GLU	A	340	59.110	-0.677	71.656	1.00	17.65
2512	N	GLU	A	341	60.179	-2.637	72.071	1.00	16.42
2513	CA	GLU	A	341	60.375	-3.028	70.652	1.00	16.28
2514	CB	GLU	A	341	61.852	-2.767	70.207	1.00	15.95
2515	CG	GLU	A	341	62.977	-3.386	71.056	1.00	14.08
2516	CD	GLU	A	341	64.424	-3.191	70.506	1.00	13.39
2517	OE1	GLU	A	341	65.385	-3.805	71.081	1.00	12.71
2518	OE2	GLU	A	341	64.644	-2.467	69.515	1.00	8.20
2519	C	GLU	A	341	59.906	-4.476	70.268	1.00	17.28
2520	O	GLU	A	341	59.633	-5.315	71.161	1.00	16.95
2521	N	SER	A	342	59.796	-4.769	68.956	1.00	17.63
2522	CA	SER	A	342	59.697	-6.173	68.515	1.00	18.95
2523	CB	SER	A	342	58.248	-6.636	68.381	1.00	19.31
2524	OG	SER	A	342	58.224	-8.073	68.280	1.00	21.61
2525	C	SER	A	342	60.382	-6.497	67.214	1.00	19.15
2526	O	SER	A	342	59.979	-6.031	66.192	1.00	20.09
2527	N	ARG	A	343	61.501	-7.364	67.211	1.00	20.15
2528	CA	ARG	A	343	62.084	-7.813	65.942	1.00	21.25
2529	CB	ARG	A	343	63.582	-7.409	65.727	1.00	22.04
2530	CG	ARG	A	343	63.942	-6.741	64.317	1.00	22.05
2531	CD	ARG	A	343	62.998	-5.613	63.834	1.00	22.39
2532	NE	ARG	A	343	63.452	-4.238	64.088	1.00	22.49
2533	CZ	ARG	A	343	63.320	-3.199	63.228	1.00	22.98
2534	NH1	ARG	A	343	62.561	-3.250	62.110	1.00	21.68
2535	NH2	ARG	A	343	63.981	-2.078	63.477	1.00	23.14
2536	C	ARG	A	343	61.861	-9.299	65.871	1.00	20.88
2537	O	ARG	A	343	62.791	-10.100	66.028	1.00	20.91
2538	N	THR	A	344	60.221	-9.577	66.012	1.00	20.04
2539	CA	THR	A	344	59.527	-10.487	65.124	1.00	19.11
2540	CB	THR	A	344	59.020	-11.783	65.919	1.00	19.72
2541	OG1	THR	A	344	59.968	-12.858	65.689	1.00	17.97

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2542	CG2	THR	A	344	57.578	-12.379	65.476	1.00	18.16
2543	C	THR	A	344	58.473	-9.559	64.437	1.00	18.77
2544	O	THR	A	344	58.595	-9.293	63.222	1.00	19.80
2545	N	GLY	A	345	57.540	-8.953	65.200	1.00	17.54
2546	CA	GLY	A	345	56.525	-8.066	64.646	1.00	15.54
2547	C	GLY	A	345	56.500	-6.525	64.900	1.00	14.85
2548	O	GLY	A	345	57.550	-5.839	64.857	1.00	13.91
2549	N	TRP	A	346	55.256	-6.009	65.080	1.00	13.95
2550	CA	TRP	A	346	54.915	-4.589	65.386	1.00	12.98
2551	CB	TRP	A	346	53.555	-4.060	64.673	1.00	12.27
2552	CG	TRP	A	346	52.232	-4.859	64.938	1.00	9.91
2553	CD1	TRP	A	346	51.337	-4.665	65.927	1.00	6.40
2554	NE1	TRP	A	346	50.328	-5.611	65.859	1.00	4.61
2555	CE2	TRP	A	346	50.539	-6.402	64.761	1.00	8.14
2556	CD2	TRP	A	346	51.712	-5.940	64.144	1.00	7.63
2557	CE3	TRP	A	346	52.198	-6.640	63.022	1.00	7.42
2558	CZ3	TRP	A	346	51.475	-7.728	62.522	1.00	7.28
2559	CH2	TRP	A	346	50.309	-8.169	63.168	1.00	8.70
2560	CZ2	TRP	A	346	49.860	-7.554	64.317	1.00	10.04
2561	C	TRP	A	346	54.824	-4.322	66.884	1.00	13.75
2562	O	TRP	A	346	54.260	-5.087	67.645	1.00	13.60
2563	N	ALA	A	347	55.360	-3.188	67.309	1.00	14.45
2564	CA	ALA	A	347	55.319	-2.799	68.729	1.00	14.58
2565	CB	ALA	A	347	56.137	-1.455	68.957	1.00	13.98
2566	C	ALA	A	347	53.876	-2.629	69.136	1.00	14.60
2567	O	ALA	A	347	53.179	-1.795	68.546	1.00	15.40
2568	N	GLY	A	348	53.424	-3.434	70.085	1.00	13.89
2569	CA	GLY	A	348	52.174	-3.204	70.771	1.00	14.29
2570	C	GLY	A	348	51.188	-4.327	70.517	1.00	15.34
2571	O	GLY	A	348	51.597	-5.520	70.301	1.00	14.96
2572	N	GLY	A	349	49.896	-3.942	70.597	1.00	15.27
2573	CA	GLY	A	349	48.767	-4.806	70.234	1.00	16.49
2574	C	GLY	A	349	48.113	-4.299	68.956	1.00	17.04
2575	O	GLY	A	349	48.783	-4.102	67.923	1.00	16.86
2576	N	PHE	A	350	46.811	-4.059	68.989	1.00	17.74
2577	CA	PHE	A	350	46.238	-3.185	67.950	1.00	18.51
2578	CB	PHE	A	350	44.717	-3.119	68.173	1.00	20.24
2579	CG	PHE	A	350	43.898	-2.560	67.008	1.00	22.65
2580	CD1	PHE	A	350	42.644	-3.175	66.710	1.00	26.92
2581	CE1	PHE	A	350	41.830	-2.675	65.673	1.00	28.30
2582	CZ	PHE	A	350	42.306	-1.517	64.919	1.00	29.05
2583	CE2	PHE	A	350	43.573	-0.887	65.254	1.00	25.07
2584	CD2	PHE	A	350	44.323	-1.405	66.277	1.00	23.91
2585	C	PHE	A	350	46.926	-1.767	68.072	1.00	17.96
2586	O	PHE	A	350	47.511	-1.230	67.120	1.00	16.43
2587	N	PHE	A	351	46.834	-1.230	69.288	1.00	18.44
2588	CA	PHE	A	351	47.404	0.032	69.698	1.00	18.92
2589	CB	PHE	A	351	46.353	0.782	70.532	1.00	19.45
2590	CG	PHE	A	351	45.097	1.098	69.802	1.00	21.02
2591	CD1	PHE	A	351	43.869	0.583	70.243	1.00	23.08
2592	CE1	PHE	A	351	42.628	0.890	69.541	1.00	21.81

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2593	CZ	PHE	A	351	42.656	1.720	68.429	1.00	21.68
2594	CE2	PHE	A	351	43.895	2.272	68.009	1.00	19.68
2595	CD2	PHE	A	351	45.111	1.938	68.681	1.00	21.51
2596	C	PHE	A	351	48.613	-0.246	70.618	1.00	18.64
2597	O	PHE	A	351	48.690	-1.340	71.221	1.00	19.40
2598	N	VAL	A	352	49.547	0.730	70.750	1.00	17.60
2599	CA	VAL	A	352	50.590	0.654	71.794	1.00	16.00
2600	CB	VAL	A	352	51.527	1.864	71.930	1.00	15.44
2601	CG1	VAL	A	352	52.708	1.503	72.878	1.00	16.82
2602	CG2	VAL	A	352	52.038	2.375	70.598	1.00	15.44
2603	C	VAL	A	352	49.858	0.683	73.088	1.00	15.45
2604	O	VAL	A	352	48.878	1.359	73.191	1.00	15.38
2605	N	SER	A	353	50.391	-0.044	74.057	1.00	16.48
2606	CA	SER	A	353	49.848	-0.249	75.398	1.00	16.05
2607	CB	SER	A	353	50.630	-1.346	76.115	1.00	15.79
2608	OG	SER	A	353	50.038	-2.568	75.849	1.00	19.00
2609	C	SER	A	353	50.031	0.950	76.262	1.00	15.60
2610	O	SER	A	353	51.100	1.514	76.367	1.00	13.88
2611	N	THR	A	354	48.976	1.228	76.988	1.00	15.71
2612	CA	THR	A	354	49.020	2.311	77.915	1.00	15.66
2613	CB	THR	A	354	47.629	3.003	77.913	1.00	15.78
2614	OG1	THR	A	354	47.515	3.845	79.048	1.00	18.82
2615	CG2	THR	A	354	46.405	1.935	78.018	1.00	18.86
2616	C	THR	A	354	49.617	1.814	79.338	1.00	14.83
2617	O	THR	A	354	49.419	0.655	79.798	1.00	13.82
2618	N	PRO	A	355	50.417	2.679	79.990	1.00	13.33
2619	CA	PRO	A	355	50.941	2.392	81.335	1.00	12.67
2620	CB	PRO	A	355	52.255	3.182	81.366	1.00	11.36
2621	CG	PRO	A	355	51.891	4.429	80.628	1.00	12.60
2622	CD	PRO	A	355	50.860	3.999	79.547	1.00	11.96
2623	C	PRO	A	355	50.001	2.937	82.391	1.00	12.02
2624	O	PRO	A	355	49.306	3.963	82.168	1.00	12.86
2625	N	VAL	A	356	49.965	2.220	83.501	1.00	11.37
2626	CA	VAL	A	356	49.266	2.637	84.695	1.00	11.87
2627	CB	VAL	A	356	48.066	1.706	85.001	1.00	11.64
2628	CG1	VAL	A	356	47.179	2.308	86.103	1.00	11.42
2629	CG2	VAL	A	356	47.290	1.490	83.716	1.00	10.84
2630	C	VAL	A	356	50.233	2.703	85.853	1.00	12.11
2631	O	VAL	A	356	50.922	1.738	86.177	1.00	12.78
2632	N	PHE	A	357	50.249	3.876	86.470	1.00	12.90
2633	CA	PHE	A	357	51.255	4.299	87.454	1.00	14.25
2634	CB	PHE	A	357	51.465	5.820	87.284	1.00	13.68
2635	CG	PHE	A	357	52.211	6.149	86.053	1.00	12.05
2636	CD1	PHE	A	357	53.592	6.199	86.071	1.00	10.20
2637	CE1	PHE	A	357	54.299	6.425	84.941	1.00	10.14
2638	CZ	PHE	A	357	53.668	6.605	83.782	1.00	6.71
2639	CE2	PHE	A	357	52.283	6.553	83.732	1.00	10.64
2640	CD2	PHE	A	357	51.560	6.306	84.861	1.00	11.85
2641	C	PHE	A	357	50.852	3.960	88.888	1.00	15.17
2642	O	PHE	A	357	49.657	3.794	89.135	1.00	15.46
2643	N	SER	A	358	51.817	3.925	89.827	1.00	16.75

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2644	CA	SER	A	358	51.562	3.323	91.140	1.00	18.63
2645	CB	SER	A	358	52.406	2.031	91.361	1.00	18.51
2646	OG	SER	A	358	53.808	2.242	91.515	1.00	17.97
2647	C	SER	A	358	51.706	4.253	92.319	1.00	20.37
2648	O	SER	A	358	52.815	4.486	92.800	1.00	21.37
2649	N	TYR	A	359	50.575	4.720	92.838	1.00	22.01
2650	CA	TYR	A	359	50.493	5.775	93.881	1.00	22.59
2651	CB	TYR	A	359	49.920	5.210	95.196	1.00	23.44
2652	CG	TYR	A	359	48.517	5.762	95.504	1.00	26.11
2653	CD1	TYR	A	359	47.509	5.799	94.486	1.00	29.57
2654	CE1	TYR	A	359	46.229	6.335	94.736	1.00	30.80
2655	CZ	TYR	A	359	45.937	6.835	96.022	1.00	30.46
2656	OH	TYR	A	359	44.678	7.341	96.250	1.00	30.73
2657	CE2	TYR	A	359	46.909	6.820	97.057	1.00	29.53
2658	CD2	TYR	A	359	48.198	6.278	96.793	1.00	28.26
2659	C	TYR	A	359	51.720	6.678	94.117	1.00	22.53
2660	O	TYR	A	359	51.591	7.921	94.167	1.00	22.75
2661	N	ASP	A	360	52.885	6.054	94.273	1.00	22.25
2662	CA	ASP	A	360	54.178	6.750	94.249	1.00	22.34
2663	CB	ASP	A	360	55.338	5.752	94.554	1.00	22.19
2664	CG	ASP	A	360	55.962	5.163	93.303	1.00	21.66
2665	OD1	ASP	A	360	57.111	4.711	93.383	1.00	19.75
2666	OD2	ASP	A	360	55.391	5.114	92.192	1.00	22.67
2667	C	ASP	A	360	54.515	7.591	92.989	1.00	22.26
2668	O	ASP	A	360	55.524	8.329	93.012	1.00	22.36
2669	N	ALA	A	361	53.701	7.445	91.919	1.00	21.79
2670	CA	ALA	A	361	53.750	8.246	90.670	1.00	21.38
2671	CB	ALA	A	361	53.184	9.684	90.900	1.00	21.22
2672	C	ALA	A	361	55.141	8.266	89.994	1.00	21.11
2673	O	ALA	A	361	55.653	9.317	89.562	1.00	21.07
2674	N	ILE	A	362	55.746	7.082	89.902	1.00	20.92
2675	CA	ILE	A	362	57.034	6.925	89.198	1.00	20.87
2676	CB	ILE	A	362	58.253	7.276	90.127	1.00	20.75
2677	CG1	ILE	A	362	59.336	7.980	89.305	1.00	22.63
2678	CD1	ILE	A	362	60.438	8.669	90.164	1.00	23.93
2679	CG2	ILE	A	362	58.835	6.064	90.834	1.00	21.46
2680	C	ILE	A	362	57.157	5.553	88.493	1.00	20.01
2681	O	ILE	A	362	57.278	5.504	87.248	1.00	18.05
2682	N	SER	A	363	57.086	4.477	89.292	1.00	18.89
2683	CA	SER	A	363	57.039	3.098	88.803	1.00	18.37
2684	CB	SER	A	363	57.259	2.209	89.994	1.00	18.68
2685	OG	SER	A	363	56.028	2.186	90.702	1.00	21.23
2686	C	SER	A	363	55.655	2.720	88.223	1.00	17.34
2687	O	SER	A	363	54.650	3.196	88.722	1.00	17.51
2688	N	TYR	A	364	55.598	1.841	87.210	1.00	15.38
2689	CA	TYR	A	364	54.322	1.601	86.530	1.00	15.17
2690	CB	TYR	A	364	54.241	2.523	85.331	1.00	15.62
2691	CG	TYR	A	364	55.404	2.315	84.364	1.00	17.57
2692	CD1	TYR	A	364	56.601	2.996	84.509	1.00	24.32
2693	CE1	TYR	A	364	57.657	2.847	83.592	1.00	24.41
2694	CZ	TYR	A	364	57.501	2.021	82.481	1.00	20.60

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2695	OH	TYR	A	364	58.512	1.976	81.504	1.00	19.91
2696	CE2	TYR	A	364	56.264	1.339	82.293	1.00	16.73
2697	CD2	TYR	A	364	55.239	1.482	83.255	1.00	15.08
2698	C	TYR	A	364	54.167	0.195	86.023	1.00	14.05
2699	O	TYR	A	364	55.143	-0.576	86.022	1.00	14.47
2700	N	TYR	A	365	52.929	-0.125	85.637	1.00	12.07
2701	CA	TYR	A	365	52.566	-1.404	85.052	1.00	11.57
2702	CB	TYR	A	365	51.480	-2.124	85.880	1.00	11.41
2703	CG	TYR	A	365	51.880	-2.281	87.328	1.00	9.06
2704	CD1	TYR	A	365	51.783	-1.221	88.186	1.00	8.68
2705	CE1	TYR	A	365	52.147	-1.320	89.565	1.00	7.14
2706	CZ	TYR	A	365	52.604	-2.472	90.083	1.00	7.82
2707	OH	TYR	A	365	52.920	-2.451	91.429	1.00	2.00
2708	CE2	TYR	A	365	52.712	-3.599	89.229	1.00	9.23
2709	CD2	TYR	A	365	52.354	-3.478	87.839	1.00	9.02
2710	C	TYR	A	365	52.115	-1.267	83.598	1.00	11.83
2711	O	TYR	A	365	51.513	-0.296	83.197	1.00	11.59
2712	N	LYS	A	366	52.361	-2.309	82.828	1.00	12.20
2713	CA	LYS	A	366	52.329	-2.202	81.409	1.00	12.21
2714	CB	LYS	A	366	53.489	-1.314	80.920	1.00	12.23
2715	CG	LYS	A	366	53.451	-1.129	79.391	1.00	12.14
2716	CD	LYS	A	366	54.052	0.184	78.839	1.00	10.82
2717	CE	LYS	A	366	54.029	0.164	77.293	1.00	10.79
2718	NZ	LYS	A	366	53.060	-0.828	76.717	1.00	10.47
2719	C	LYS	A	366	52.387	-3.574	80.739	1.00	12.99
2720	O	LYS	A	366	53.277	-4.359	80.983	1.00	12.58
2721	N	ILE	A	367	51.452	-3.825	79.828	1.00	15.00
2722	CA	ILE	A	367	51.335	-5.148	79.200	1.00	15.67
2723	CB	ILE	A	367	49.877	-5.448	78.810	1.00	15.37
2724	CG1	ILE	A	367	49.057	-5.617	80.091	1.00	14.66
2725	CD1	ILE	A	367	47.621	-5.433	79.937	1.00	9.27
2726	CG2	ILE	A	367	49.858	-6.727	77.993	1.00	16.04
2727	C	ILE	A	367	52.207	-5.228	77.966	1.00	15.97
2728	O	ILE	A	367	52.150	-4.315	77.123	1.00	17.06
2729	N	PHE	A	368	52.982	-6.299	77.837	1.00	15.13
2730	CA	PHE	A	368	53.646	-6.579	76.577	1.00	14.90
2731	CB	PHE	A	368	54.806	-5.619	76.306	1.00	14.51
2732	CG	PHE	A	368	55.636	-5.318	77.521	1.00	16.56
2733	CD1	PHE	A	368	56.793	-6.004	77.768	1.00	17.21
2734	CE1	PHE	A	368	57.563	-5.719	78.917	1.00	18.46
2735	CZ	PHE	A	368	57.165	-4.736	79.785	1.00	17.94
2736	CE2	PHE	A	368	56.014	-4.047	79.545	1.00	16.88
2737	CD2	PHE	A	368	55.249	-4.343	78.434	1.00	19.11
2738	C	PHE	A	368	54.145	-7.986	76.533	1.00	15.22
2739	O	PHE	A	368	54.308	-8.638	77.588	1.00	14.25
2740	N	SER	A	369	54.455	-8.463	75.322	1.00	15.31
2741	CA	SER	A	369	55.002	-9.806	75.244	1.00	15.54
2742	CB	SER	A	369	55.373	-10.371	73.833	1.00	15.77
2743	OG	SER	A	369	55.733	-9.476	72.811	1.00	13.50
2744	C	SER	A	369	56.129	-9.949	76.271	1.00	16.30
2745	O	SER	A	369	56.967	-9.061	76.418	1.00	16.96

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2746	N	ASP	A	370	56.039	-11.049	77.025	1.00	16.41
2747	CA	ASP	A	370	57.060	-11.503	77.917	1.00	16.12
2748	CB	ASP	A	370	56.540	-12.557	78.915	1.00	16.13
2749	CG	ASP	A	370	55.951	-13.847	78.263	1.00	16.47
2750	OD1	ASP	A	370	55.121	-14.512	78.979	1.00	14.88
2751	OD2	ASP	A	370	56.284	-14.287	77.122	1.00	14.91
2752	C	ASP	A	370	58.129	-11.974	76.983	1.00	16.16
2753	O	ASP	A	370	58.278	-11.385	75.907	1.00	16.82
2754	N	LYS	A	371	58.864	-13.011	77.353	1.00	15.43
2755	CA	LYS	A	371	60.066	-13.375	76.640	1.00	15.27
2756	CB	LYS	A	371	61.209	-13.610	77.650	1.00	16.07
2757	CG	LYS	A	371	61.178	-12.680	78.934	1.00	18.26
2758	CD	LYS	A	371	62.572	-12.666	79.719	1.00	23.20
2759	CE	LYS	A	371	63.312	-11.272	79.588	1.00	24.23
2760	NZ	LYS	A	371	64.526	-11.109	80.485	1.00	23.83
2761	C	LYS	A	371	59.822	-14.607	75.811	1.00	14.20
2762	O	LYS	A	371	60.656	-14.972	75.001	1.00	14.01
2763	N	ASP	A	372	58.690	-15.264	76.039	1.00	13.54
2764	CA	ASP	A	372	58.286	-16.459	75.272	1.00	13.39
2765	CB	ASP	A	372	57.672	-17.535	76.214	1.00	13.78
2766	CG	ASP	A	372	58.665	-18.078	77.241	1.00	14.39
2767	OD1	ASP	A	372	59.743	-18.593	76.861	1.00	14.18
2768	OD2	ASP	A	372	58.429	-18.034	78.462	1.00	14.01
2769	C	ASP	A	372	57.276	-16.076	74.174	1.00	13.02
2770	O	ASP	A	372	56.704	-16.953	73.491	1.00	12.78
2771	N	GLY	A	373	57.092	-14.754	74.017	1.00	12.47
2772	CA	GLY	A	373	56.055	-14.192	73.215	1.00	11.69
2773	C	GLY	A	373	54.633	-14.026	73.743	1.00	11.32
2774	O	GLY	A	373	53.764	-13.845	72.916	1.00	12.26
2775	N	TYR	A	374	54.334	-14.007	75.030	1.00	11.49
2776	CA	TYR	A	374	52.934	-13.785	75.432	1.00	11.77
2777	CB	TYR	A	374	52.439	-14.875	76.347	1.00	11.82
2778	CG	TYR	A	374	52.148	-16.166	75.641	1.00	14.72
2779	CD1	TYR	A	374	50.827	-16.578	75.393	1.00	15.77
2780	CE1	TYR	A	374	50.555	-17.799	74.748	1.00	18.52
2781	CZ	TYR	A	374	51.617	-18.620	74.369	1.00	20.51
2782	OH	TYR	A	374	51.399	-19.839	73.765	1.00	20.99
2783	CE2	TYR	A	374	52.935	-18.229	74.617	1.00	19.57
2784	CD2	TYR	A	374	53.192	-17.004	75.243	1.00	17.39
2785	C	TYR	A	374	52.740	-12.458	76.116	1.00	11.26
2786	O	TYR	A	374	53.536	-12.126	76.951	1.00	11.73
2787	N	LYS	A	375	51.676	-11.706	75.793	1.00	10.33
2788	CA	LYS	A	375	51.497	-10.344	76.330	1.00	9.44
2789	CB	LYS	A	375	50.569	-9.492	75.465	1.00	9.72
2790	CG	LYS	A	375	51.259	-8.702	74.352	1.00	6.97
2791	CD	LYS	A	375	50.278	-8.237	73.219	1.00	6.44
2792	CE	LYS	A	375	50.909	-8.424	71.791	1.00	2.42
2793	NZ	LYS	A	375	52.321	-9.029	71.739	1.00	2.00
2794	C	LYS	A	375	50.965	-10.409	77.692	1.00	9.24
2795	O	LYS	A	375	49.981	-11.057	77.907	1.00	9.80
2796	N	HIS	A	376	51.651	-9.736	78.608	1.00	9.24

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2797	CA	HIS	A	376	51.494	-9.884	80.083	1.00	8.84
2798	CB	HIS	A	376	52.293	-11.110	80.631	1.00	9.38
2799	CG	HIS	A	376	51.523	-12.401	80.636	1.00	8.02
2800	ND1	HIS	A	376	51.883	-13.488	79.860	1.00	9.63
2801	CE1	HIS	A	376	51.035	-14.478	80.066	1.00	7.76
2802	NE2	HIS	A	376	50.124	-14.065	80.928	1.00	6.58
2803	CD2	HIS	A	376	50.406	-12.773	81.303	1.00	5.25
2804	C	HIS	A	376	51.957	-8.599	80.880	1.00	9.02
2805	O	HIS	A	376	52.937	-7.905	80.487	1.00	9.41
2806	N	ILE	A	377	51.298	-8.340	82.027	1.00	8.37
2807	CA	ILE	A	377	51.663	-7.204	82.877	1.00	7.98
2808	CB	ILE	A	377	50.786	-7.100	84.085	1.00	6.89
2809	CG1	ILE	A	377	49.334	-6.949	83.658	1.00	5.84
2810	CD1	ILE	A	377	48.416	-6.810	84.759	1.00	3.98
2811	CG2	ILE	A	377	51.208	-5.934	84.894	1.00	4.29
2812	C	ILE	A	377	53.112	-7.310	83.304	1.00	9.38
2813	O	ILE	A	377	53.660	-8.386	83.444	1.00	10.15
2814	N	HIS	A	378	53.726	-6.166	83.488	1.00	10.50
2815	CA	HIS	A	378	55.081	-6.094	83.847	1.00	10.42
2816	CB	HIS	A	378	55.921	-5.904	82.579	1.00	11.18
2817	CG	HIS	A	378	56.308	-7.172	81.871	1.00	10.37
2818	ND1	HIS	A	378	55.453	-7.847	81.032	1.00	10.48
2819	CE1	HIS	A	378	56.073	-8.903	80.530	1.00	11.11
2820	NE2	HIS	A	378	57.308	-8.936	81.007	1.00	13.63
2821	CD2	HIS	A	378	57.490	-7.848	81.825	1.00	11.44
2822	C	HIS	A	378	55.187	-4.859	84.737	1.00	11.71
2823	O	HIS	A	378	54.596	-3.842	84.422	1.00	11.74
2824	N	TYR	A	379	55.941	-4.954	85.845	1.00	13.98
2825	CA	TYR	A	379	56.263	-3.809	86.692	1.00	14.70
2826	CB	TYR	A	379	56.171	-4.209	88.130	1.00	14.91
2827	CG	TYR	A	379	56.338	-3.085	89.121	1.00	16.19
2828	CD1	TYR	A	379	55.379	-2.061	89.234	1.00	17.36
2829	CE1	TYR	A	379	55.529	-1.043	90.191	1.00	18.61
2830	CZ	TYR	A	379	56.667	-1.045	91.048	1.00	16.97
2831	OH	TYR	A	379	56.896	-0.072	92.017	1.00	12.89
2832	CE2	TYR	A	379	57.605	-2.057	90.931	1.00	17.20
2833	CD2	TYR	A	379	57.443	-3.061	89.974	1.00	16.80
2834	C	TYR	A	379	57.647	-3.228	86.429	1.00	15.06
2835	O	TYR	A	379	58.693	-3.903	86.632	1.00	14.56
2836	N	ILE	A	380	57.626	-1.949	86.010	1.00	16.16
2837	CA	ILE	A	380	58.849	-1.190	85.726	1.00	16.59
2838	CB	ILE	A	380	58.723	-0.620	84.297	1.00	16.81
2839	CG1	ILE	A	380	58.459	-1.777	83.305	1.00	14.37
2840	CD1	ILE	A	380	58.577	-1.373	81.828	1.00	14.04
2841	CG2	ILE	A	380	59.972	0.216	83.895	1.00	15.63
2842	C	ILE	A	380	59.274	-0.112	86.794	1.00	17.92
2843	O	ILE	A	380	58.834	1.041	86.716	1.00	17.23
2844	N	LYS	A	381	60.148	-0.492	87.767	1.00	19.47
2845	CA	LYS	A	381	60.563	0.447	88.839	1.00	21.41
2846	CB	LYS	A	381	61.447	-0.187	89.928	1.00	21.40
2847	CG	LYS	A	381	60.759	-0.257	91.338	1.00	22.98

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2848	CD	LYS	A	381	61.585	0.313	92.529	1.00	23.98
2849	CE	LYS	A	381	60.710	0.594	93.800	1.00	24.43
2850	NZ	LYS	A	381	61.523	1.048	95.008	1.00	22.75
2851	C	LYS	A	381	61.310	1.589	88.211	1.00	22.47
2852	O	LYS	A	381	60.865	2.735	88.279	1.00	23.04
2853	N	ASP	A	382	62.400	1.245	87.532	1.00	23.31
2854	CA	ASP	A	382	63.278	2.252	86.934	1.00	23.86
2855	CB	ASP	A	382	64.444	2.602	87.903	1.00	23.80
2856	CG	ASP	A	382	65.403	1.405	88.187	1.00	25.83
2857	OD1	ASP	A	382	64.961	0.227	88.203	1.00	27.37
2858	OD2	ASP	A	382	66.633	1.561	88.430	1.00	29.76
2859	C	ASP	A	382	63.788	1.936	85.496	1.00	23.37
2860	O	ASP	A	382	64.049	2.872	84.723	1.00	23.42
2861	N	THR	A	383	63.944	0.662	85.124	1.00	22.73
2862	CA	THR	A	383	64.427	0.373	83.773	1.00	22.52
2863	CB	THR	A	383	65.947	0.108	83.735	1.00	22.84
2864	OG1	THR	A	383	66.299	-0.856	84.746	1.00	25.40
2865	CG2	THR	A	383	66.835	1.403	84.052	1.00	23.22
2866	C	THR	A	383	63.689	-0.778	83.117	1.00	21.69
2867	O	THR	A	383	63.114	-1.625	83.781	1.00	21.98
2868	N	VAL	A	384	63.739	-0.778	81.788	1.00	20.30
2869	CA	VAL	A	384	63.111	-1.790	80.968	1.00	19.66
2870	CB	VAL	A	384	63.304	-1.518	79.474	1.00	19.68
2871	CG1	VAL	A	384	62.531	-2.582	78.647	1.00	18.47
2872	CG2	VAL	A	384	62.876	-0.058	79.102	1.00	20.73
2873	C	VAL	A	384	63.674	-3.185	81.172	1.00	19.43
2874	O	VAL	A	384	62.932	-4.157	81.006	1.00	19.66
2875	N	GLU	A	385	64.968	-3.282	81.474	1.00	18.67
2876	CA	GLU	A	385	65.708	-4.561	81.490	1.00	18.63
2877	CB	GLU	A	385	67.201	-4.404	80.996	1.00	19.00
2878	CG	GLU	A	385	67.892	-3.015	81.068	1.00	21.03
2879	CD	GLU	A	385	67.319	-1.959	80.077	1.00	23.99
2880	OE1	GLU	A	385	67.038	-0.781	80.501	1.00	24.04
2881	OE2	GLU	A	385	67.139	-2.304	78.874	1.00	24.91
2882	C	GLU	A	385	65.595	-5.175	82.908	1.00	17.90
2883	O	GLU	A	385	65.662	-6.395	83.107	1.00	17.71
2884	N	ASN	A	386	65.378	-4.281	83.866	1.00	17.23
2885	CA	ASN	A	386	65.054	-4.587	85.257	1.00	16.56
2886	CB	ASN	A	386	65.748	-3.482	86.080	1.00	16.52
2887	CG	ASN	A	386	65.792	-3.740	87.540	1.00	18.57
2888	OD1	ASN	A	386	66.779	-4.250	88.072	1.00	20.70
2889	ND2	ASN	A	386	64.759	-3.301	88.233	1.00	21.05
2890	C	ASN	A	386	63.473	-4.596	85.398	1.00	15.91
2891	O	ASN	A	386	62.914	-4.425	86.465	1.00	15.41
2892	N	ALA	A	387	62.756	-4.773	84.298	1.00	14.79
2893	CA	ALA	A	387	61.320	-5.034	84.358	1.00	14.58
2894	CB	ALA	A	387	60.736	-5.077	82.950	1.00	14.56
2895	C	ALA	A	387	61.054	-6.371	85.029	1.00	14.46
2896	O	ALA	A	387	61.653	-7.364	84.651	1.00	14.38
2897	N	ILE	A	388	60.133	-6.440	85.985	1.00	14.33
2898	CA	ILE	A	388	59.776	-7.758	86.524	1.00	13.90

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2899	CB	ILE	A	388	59.908	-7.828	88.090	1.00	14.99
2900	CG1	ILE	A	388	58.855	-8.768	88.709	1.00	16.03
2901	CD1	ILE	A	388	57.601	-8.107	89.172	1.00	16.01
2902	CG2	ILE	A	388	60.007	-6.418	88.775	1.00	16.68
2903	C	ILE	A	388	58.420	-8.222	85.975	1.00	13.51
2904	O	ILE	A	388	57.454	-7.434	85.960	1.00	10.45
2905	N	GLN	A	389	58.388	-9.491	85.503	1.00	13.06
2906	CA	GLN	A	389	57.179	-10.060	84.884	1.00	12.72
2907	CB	GLN	A	389	57.442	-11.335	84.061	1.00	12.38
2908	CG	GLN	A	389	56.281	-11.684	83.004	1.00	14.88
2909	CD	GLN	A	389	56.617	-12.873	82.029	1.00	16.63
2910	OE1	GLN	A	389	57.793	-13.096	81.675	1.00	17.64
2911	NE2	GLN	A	389	55.585	-13.628	81.614	1.00	14.65
2912	C	GLN	A	389	56.264	-10.360	86.027	1.00	12.14
2913	O	GLN	A	389	56.734	-10.883	87.022	1.00	12.78
2914	N	ILE	A	390	54.980	-10.025	85.867	1.00	11.15
2915	CA	ILE	A	390	53.989	-9.985	86.943	1.00	10.01
2916	CB	ILE	A	390	53.476	-8.542	87.068	1.00	10.49
2917	CG1	ILE	A	390	54.593	-7.616	87.601	1.00	10.04
2918	CD1	ILE	A	390	54.710	-7.559	89.095	1.00	6.61
2919	CG2	ILE	A	390	52.108	-8.481	87.861	1.00	11.13
2920	C	ILE	A	390	52.798	-10.904	86.661	1.00	9.77
2921	O	ILE	A	390	52.217	-11.419	87.591	1.00	8.97
2922	N	THR	A	391	52.369	-11.027	85.390	1.00	8.89
2923	CA	THR	A	391	51.480	-12.134	84.981	1.00	9.40
2924	CB	THR	A	391	50.046	-11.742	84.507	1.00	8.22
2925	OG1	THR	A	391	50.031	-10.591	83.610	1.00	12.13
2926	CG2	THR	A	391	49.257	-11.308	85.660	1.00	6.43
2927	C	THR	A	391	52.224	-12.958	83.975	1.00	9.72
2928	O	THR	A	391	53.070	-12.442	83.297	1.00	10.08
2929	N	SER	A	392	51.963	-14.426	84.141	1.00	10.77
2930	CA	SER	A	392	52.672	-15.049	83.045	1.00	11.75
2931	CB	SER	A	392	54.196	-15.409	83.436	1.00	11.91
2932	OG	SER	A	392	54.389	-16.147	84.655	1.00	12.28
2933	C	SER	A	392	51.845	-16.259	82.658	1.00	11.99
2934	O	SER	A	392	50.987	-16.695	83.416	1.00	12.51
2935	N	GLY	A	393	52.378	-17.021	81.720	1.00	12.37
2936	CA	GLY	A	393	51.843	-18.345	81.385	1.00	12.97
2937	C	GLY	A	393	51.402	-18.278	79.976	1.00	14.22
2938	O	GLY	A	393	51.772	-17.341	79.319	1.00	14.01
2939	N	LYS	A	394	50.481	-18.999	79.262	1.00	15.07
2940	CA	LYS	A	394	50.083	-19.225	77.870	1.00	16.36
2941	CB	LYS	A	394	50.310	-20.691	77.343	1.00	16.27
2942	CG	LYS	A	394	50.756	-21.779	78.348	1.00	19.02
2943	CD	LYS	A	394	50.760	-23.192	77.715	1.00	21.32
2944	CE	LYS	A	394	52.022	-23.408	76.846	1.00	23.31
2945	NZ	LYS	A	394	52.016	-22.611	75.589	1.00	20.46
2946	C	LYS	A	394	48.634	-18.715	77.654	1.00	17.08
2947	O	LYS	A	394	47.656	-19.441	77.415	1.00	17.68
2948	N	TRP	A	395	48.554	-17.408	77.716	1.00	16.68
2949	CA	TRP	A	395	47.305	-16.693	77.632	1.00	16.68

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
2950	CB	TRP	A	395	46.336	-17.178	78.719	1.00	16.19
2951	CG	TRP	A	395	46.993	-17.293	80.028	1.00	15.59
2952	CD1	TRP	A	395	47.629	-18.409	80.560	1.00	16.01
2953	NE1	TRP	A	395	48.127	-18.107	81.805	1.00	15.69
2954	CE2	TRP	A	395	47.850	-16.799	82.104	1.00	12.60
2955	CD2	TRP	A	395	47.138	-16.253	80.998	1.00	13.15
2956	CE3	TRP	A	395	46.698	-14.928	81.068	1.00	11.29
2957	CZ3	TRP	A	395	47.007	-14.167	82.210	1.00	9.88
2958	CH2	TRP	A	395	47.726	-14.731	83.288	1.00	11.62
2959	CZ2	TRP	A	395	48.158	-16.053	83.256	1.00	12.90
2960	C	TRP	A	395	47.702	-15.209	77.781	1.00	16.90
2961	O	TRP	A	395	48.912	-14.868	77.744	1.00	17.25
2962	N	GLU	A	396	46.737	-14.320	77.928	1.00	16.40
2963	CA	GLU	A	396	47.092	-12.927	77.836	1.00	16.88
2964	CB	GLU	A	396	47.000	-12.451	76.390	1.00	16.28
2965	CG	GLU	A	396	48.296	-12.676	75.646	1.00	17.30
2966	CD	GLU	A	396	48.466	-11.940	74.320	1.00	16.64
2967	OE1	GLU	A	396	47.753	-10.905	74.029	1.00	17.89
2968	OE2	GLU	A	396	49.358	-12.470	73.588	1.00	12.57
2969	C	GLU	A	396	46.337	-12.012	78.745	1.00	16.70
2970	O	GLU	A	396	45.151	-12.161	78.995	1.00	16.78
2971	N	ALA	A	397	47.088	-11.072	79.267	1.00	17.01
2972	CA	ALA	A	397	46.540	-9.933	79.959	1.00	17.34
2973	CB	ALA	A	397	47.612	-9.336	80.830	1.00	16.89
2974	C	ALA	A	397	46.090	-8.929	78.880	1.00	17.18
2975	O	ALA	A	397	46.915	-8.491	78.080	1.00	17.27
2976	N	ILE	A	398	44.799	-8.603	78.830	1.00	16.92
2977	CA	ILE	A	398	44.306	-7.781	77.744	1.00	16.77
2978	CB	ILE	A	398	42.856	-8.044	77.362	1.00	17.26
2979	CG1	ILE	A	398	42.759	-9.412	76.636	1.00	15.98
2980	CD1	ILE	A	398	43.101	-10.546	77.433	1.00	5.32
2981	CG2	ILE	A	398	42.296	-6.850	76.415	1.00	13.28
2982	C	ILE	A	398	44.511	-6.355	78.063	1.00	17.84
2983	O	ILE	A	398	45.168	-5.670	77.267	1.00	16.45
2984	N	ASN	A	399	44.003	-5.887	79.260	1.00	19.67
2985	CA	ASN	A	399	44.459	-4.592	79.751	1.00	21.11
2986	CB	ASN	A	399	43.726	-3.458	79.033	1.00	23.66
2987	CG	ASN	A	399	44.518	-2.166	79.023	1.00	30.34
2988	OD1	ASN	A	399	45.731	-2.169	79.227	1.00	36.25
2989	ND2	ASN	A	399	43.832	-1.055	78.784	1.00	31.00
2990	C	ASN	A	399	44.260	-4.473	81.259	1.00	19.26
2991	O	ASN	A	399	43.534	-5.164	81.957	1.00	19.19
2992	N	ILE	A	400	45.015	-3.487	81.782	1.00	17.53
2993	CA	ILE	A	400	45.017	-3.050	83.170	1.00	15.47
2994	CB	ILE	A	400	46.385	-2.434	83.431	1.00	14.26
2995	CG1	ILE	A	400	47.480	-3.507	83.255	1.00	11.09
2996	CD1	ILE	A	400	48.888	-2.917	82.871	1.00	6.78
2997	CG2	ILE	A	400	46.431	-1.847	84.799	1.00	13.16
2998	C	ILE	A	400	43.934	-1.996	83.364	1.00	15.34
2999	O	ILE	A	400	43.946	-0.961	82.712	1.00	13.99
3000	N	PHE	A	401	42.965	-2.287	84.225	1.00	15.85

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3001	CA	PHE	A	401	41.912	-1.337	84.507	1.00	15.07
3002	CB	PHE	A	401	40.606	-2.002	84.890	1.00	14.93
3003	CG	PHE	A	401	39.967	-2.730	83.803	1.00	16.15
3004	CD1	PHE	A	401	39.179	-2.055	82.876	1.00	17.19
3005	CE1	PHE	A	401	38.582	-2.745	81.791	1.00	20.03
3006	CZ	PHE	A	401	38.768	-4.143	81.678	1.00	22.03
3007	CE2	PHE	A	401	39.544	-4.838	82.683	1.00	22.42
3008	CD2	PHE	A	401	40.132	-4.110	83.703	1.00	19.58
3009	C	PHE	A	401	42.255	-0.472	85.661	1.00	15.32
3010	O	PHE	A	401	41.667	0.608	85.742	1.00	15.11
3011	N	ARG	A	402	43.095	-0.955	86.605	1.00	14.76
3012	CA	ARG	A	402	43.312	-0.260	87.885	1.00	15.46
3013	CB	ARG	A	402	42.123	-0.492	88.823	1.00	16.31
3014	CG	ARG	A	402	41.391	0.766	89.336	1.00	18.76
3015	CD	ARG	A	402	41.701	2.081	88.629	1.00	22.61
3016	NE	ARG	A	402	41.504	3.216	89.529	1.00	25.08
3017	CZ	ARG	A	402	40.884	4.367	89.233	1.00	24.02
3018	NH1	ARG	A	402	40.821	5.319	90.173	1.00	25.80
3019	NH2	ARG	A	402	40.356	4.585	88.030	1.00	21.43
3020	C	ARG	A	402	44.573	-0.555	88.683	1.00	15.20
3021	O	ARG	A	402	44.869	-1.716	89.008	1.00	15.78
3022	N	VAL	A	403	45.322	0.477	89.059	1.00	14.59
3023	CA	VAL	A	403	46.390	0.243	90.060	1.00	14.17
3024	CB	VAL	A	403	47.873	0.451	89.524	1.00	13.92
3025	CG1	VAL	A	403	48.149	-0.383	88.277	1.00	14.04
3026	CG2	VAL	A	403	48.867	0.029	90.485	1.00	11.40
3027	C	VAL	A	403	46.069	1.121	91.221	1.00	14.05
3028	O	VAL	A	403	45.955	2.302	91.116	1.00	13.79
3029	N	THR	A	404	45.926	0.485	92.356	1.00	15.12
3030	CA	THR	A	404	45.703	1.123	93.643	1.00	16.10
3031	CB	THR	A	404	44.531	0.359	94.312	1.00	15.32
3032	OG1	THR	A	404	43.372	0.479	93.438	1.00	17.75
3033	CG2	THR	A	404	44.090	0.985	95.560	1.00	16.00
3034	C	THR	A	404	46.999	1.094	94.483	1.00	16.66
3035	O	THR	A	404	48.089	0.615	94.045	1.00	17.35
3036	N	GLN	A	405	46.904	1.672	95.673	1.00	16.89
3037	CA	GLN	A	405	47.924	1.473	96.667	1.00	16.49
3038	CB	GLN	A	405	47.599	2.343	97.859	1.00	16.68
3039	CG	GLN	A	405	48.731	2.634	98.779	1.00	18.46
3040	CD	GLN	A	405	48.197	3.292	100.040	1.00	20.92
3041	OE1	GLN	A	405	48.585	2.929	101.158	1.00	19.76
3042	NE2	GLN	A	405	47.244	4.245	99.849	1.00	23.75
3043	C	GLN	A	405	48.007	-0.010	97.032	1.00	15.88
3044	O	GLN	A	405	49.067	-0.578	97.040	1.00	16.52
3045	N	ASP	A	406	46.877	-0.643	97.278	1.00	14.95
3046	CA	ASP	A	406	46.876	-2.030	97.731	1.00	14.53
3047	CB	ASP	A	406	45.792	-2.261	98.872	1.00	15.81
3048	CG	ASP	A	406	44.418	-1.350	98.754	1.00	17.58
3049	OD1	ASP	A	406	43.616	-1.398	99.749	1.00	19.19
3050	OD2	ASP	A	406	44.055	-0.558	97.822	1.00	14.14
3051	C	ASP	A	406	46.846	-3.129	96.621	1.00	12.79

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3052	O	ASP	A	406	47.179	-4.263	96.883	1.00	11.71
3053	N	SER	A	407	46.505	-2.813	95.367	1.00	13.15
3054	CA	SER	A	407	45.810	-3.811	94.539	1.00	12.04
3055	CB	SER	A	407	44.374	-3.939	95.123	1.00	12.40
3056	OG	SER	A	407	44.341	-3.775	96.591	1.00	10.89
3057	C	SER	A	407	45.774	-3.581	93.031	1.00	12.04
3058	O	SER	A	407	45.662	-2.450	92.568	1.00	12.53
3059	N	LEU	A	408	45.842	-4.658	92.237	1.00	11.88
3060	CA	LEU	A	408	45.770	-4.544	90.723	1.00	9.78
3061	CB	LEU	A	408	47.091	-4.960	90.037	1.00	9.13
3062	CG	LEU	A	408	47.237	-4.576	88.548	1.00	8.39
3063	CD1	LEU	A	408	48.702	-4.591	88.235	1.00	9.72
3064	CD2	LEU	A	408	46.501	-5.492	87.584	1.00	2.00
3065	C	LEU	A	408	44.675	-5.300	90.005	1.00	9.59
3066	O	LEU	A	408	44.661	-6.529	90.033	1.00	10.71
3067	N	PHE	A	409	43.846	-4.559	89.269	1.00	8.34
3068	CA	PHE	A	409	42.751	-5.091	88.449	1.00	7.78
3069	CB	PHE	A	409	41.570	-4.181	88.585	1.00	7.69
3070	CG	PHE	A	409	41.060	-4.151	89.916	1.00	5.89
3071	CD1	PHE	A	409	41.638	-3.371	90.829	1.00	7.21
3072	CE1	PHE	A	409	41.193	-3.374	92.129	1.00	10.59
3073	CZ	PHE	A	409	40.112	-4.159	92.453	1.00	8.64
3074	CE2	PHE	A	409	39.548	-4.980	91.504	1.00	6.29
3075	CD2	PHE	A	409	40.033	-4.970	90.265	1.00	7.07
3076	C	PHE	A	409	43.006	-5.198	86.955	1.00	7.53
3077	O	PHE	A	409	43.422	-4.246	86.330	1.00	8.73
3078	N	TYR	A	410	42.696	-6.345	86.374	1.00	7.34
3079	CA	TYR	A	410	43.052	-6.587	84.997	1.00	8.15
3080	CB	TYR	A	410	44.564	-6.817	84.854	1.00	7.49
3081	CG	TYR	A	410	44.958	-8.200	85.236	1.00	8.82
3082	CD1	TYR	A	410	45.108	-9.173	84.254	1.00	7.91
3083	CE1	TYR	A	410	45.439	-10.462	84.575	1.00	6.87
3084	CZ	TYR	A	410	45.601	-10.831	85.846	1.00	6.77
3085	OH	TYR	A	410	45.918	-12.157	86.018	1.00	8.25
3086	CE2	TYR	A	410	45.473	-9.887	86.869	1.00	6.06
3087	CD2	TYR	A	410	45.132	-8.578	86.567	1.00	7.40
3088	C	TYR	A	410	42.257	-7.723	84.350	1.00	8.47
3089	O	TYR	A	410	41.760	-8.584	85.045	1.00	8.75
3090	N	SER	A	411	42.180	-7.686	83.022	1.00	9.81
3091	CA	SER	A	411	41.285	-8.526	82.215	1.00	11.43
3092	CB	SER	A	411	40.683	-7.761	81.052	1.00	10.74
3093	OG	SER	A	411	41.695	-7.304	80.153	1.00	13.57
3094	C	SER	A	411	42.083	-9.612	81.614	1.00	12.01
3095	O	SER	A	411	43.268	-9.424	81.251	1.00	12.61
3096	N	SER	A	412	41.413	-10.731	81.388	1.00	12.71
3097	CA	SER	A	412	42.135	-11.947	81.023	1.00	13.61
3098	CB	SER	A	412	42.736	-12.586	82.285	1.00	13.14
3099	OG	SER	A	412	44.090	-12.841	82.015	1.00	16.91
3100	C	SER	A	412	41.451	-13.053	80.219	1.00	13.27
3101	O	SER	A	412	40.307	-13.479	80.421	1.00	12.36
3102	N	ASN	A	413	42.336	-13.587	79.416	1.00	14.39

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3103	CA	ASN	A	413	42.152	-14.690	78.483	1.00	16.01
3104	CB	ASN	A	413	43.434	-14.724	77.639	1.00	16.45
3105	CG	ASN	A	413	43.261	-15.393	76.362	1.00	19.16
3106	OD1	ASN	A	413	42.475	-14.950	75.549	1.00	19.97
3107	ND2	ASN	A	413	44.015	-16.510	76.140	1.00	24.58
3108	C	ASN	A	413	42.015	-16.014	79.283	1.00	15.25
3109	O	ASN	A	413	41.156	-16.843	78.961	1.00	16.19
3110	N	GLU	A	414	42.804	-16.087	80.375	1.00	14.33
3111	CA	GLU	A	414	43.167	-17.283	81.181	1.00	13.04
3112	CB	GLU	A	414	43.922	-16.844	82.457	1.00	13.29
3113	CG	GLU	A	414	44.771	-17.943	83.176	1.00	11.26
3114	CD	GLU	A	414	45.319	-17.511	84.555	1.00	12.69
3115	OE1	GLU	A	414	45.357	-16.257	84.806	1.00	15.09
3116	OE2	GLU	A	414	45.754	-18.357	85.377	1.00	9.17
3117	C	GLU	A	414	42.119	-18.358	81.600	1.00	12.34
3118	O	GLU	A	414	42.353	-19.532	81.383	1.00	12.38
3119	N	PHE	A	415	41.029	-18.012	82.258	1.00	10.77
3120	CA	PHE	A	415	40.069	-19.045	82.666	1.00	9.63
3121	CB	PHE	A	415	38.704	-18.430	82.833	1.00	9.68
3122	CG	PHE	A	415	37.781	-19.247	83.621	1.00	7.76
3123	CD1	PHE	A	415	38.117	-19.649	84.887	1.00	7.08
3124	CE1	PHE	A	415	37.250	-20.354	85.590	1.00	9.10
3125	CZ	PHE	A	415	36.002	-20.724	85.025	1.00	7.85
3126	CE2	PHE	A	415	35.689	-20.373	83.803	1.00	3.22
3127	CD2	PHE	A	415	36.566	-19.612	83.091	1.00	8.41
3128	C	PHE	A	415	39.920	-20.180	81.696	1.00	9.73
3129	O	PHE	A	415	39.650	-19.938	80.526	1.00	11.26
3130	N	GLU	A	416	40.144	-21.408	82.182	1.00	10.34
3131	CA	GLU	A	416	39.945	-22.635	81.432	1.00	9.90
3132	CB	GLU	A	416	38.455	-23.018	81.402	1.00	9.93
3133	CG	GLU	A	416	37.722	-22.852	82.713	1.00	7.34
3134	CD	GLU	A	416	36.324	-23.495	82.716	1.00	6.03
3135	OE1	GLU	A	416	35.967	-24.140	83.732	1.00	9.30
3136	OE2	GLU	A	416	35.559	-23.355	81.757	1.00	2.57
3137	C	GLU	A	416	40.436	-22.589	80.010	1.00	10.35
3138	O	GLU	A	416	39.840	-23.190	79.168	1.00	11.27
3139	N	GLU	A	417	41.481	-21.829	79.733	1.00	11.14
3140	CA	GLU	A	417	42.263	-21.872	78.470	1.00	11.93
3141	CB	GLU	A	417	42.924	-23.281	78.221	1.00	12.95
3142	CG	GLU	A	417	43.909	-23.807	79.289	1.00	13.87
3143	CD	GLU	A	417	43.417	-23.562	80.716	1.00	18.76
3144	OE1	GLU	A	417	43.459	-22.364	81.137	1.00	20.13
3145	OE2	GLU	A	417	42.982	-24.530	81.416	1.00	19.32
3146	C	GLU	A	417	41.528	-21.426	77.239	1.00	12.26
3147	O	GLU	A	417	42.002	-21.674	76.148	1.00	12.36
3148	N	TYR	A	418	40.396	-20.736	77.417	1.00	12.95
3149	CA	TYR	A	418	39.583	-20.191	76.320	1.00	12.63
3150	CB	TYR	A	418	38.124	-20.142	76.728	1.00	12.47
3151	CG	TYR	A	418	37.458	-21.487	76.713	1.00	13.26
3152	CD1	TYR	A	418	36.733	-21.929	75.611	1.00	15.19
3153	CE1	TYR	A	418	36.069	-23.190	75.611	1.00	17.13

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3154	CZ	TYR	A	418	36.133	-23.999	76.725	1.00	17.69
3155	OH	TYR	A	418	35.531	-25.205	76.757	1.00	19.39
3156	CE2	TYR	A	418	36.849	-23.584	77.833	1.00	18.53
3157	CD2	TYR	A	418	37.524	-22.310	77.810	1.00	15.67
3158	C	TYR	A	418	39.998	-18.763	75.877	1.00	13.14
3159	O	TYR	A	418	39.722	-17.785	76.581	1.00	13.74
3160	N	PRO	A	419	40.630	-18.623	74.714	1.00	11.96
3161	CA	PRO	A	419	41.053	-17.295	74.278	1.00	11.31
3162	CB	PRO	A	419	41.796	-17.563	72.950	1.00	11.84
3163	CG	PRO	A	419	42.172	-18.996	72.993	1.00	11.34
3164	CD	PRO	A	419	41.025	-19.666	73.743	1.00	12.19
3165	C	PRO	A	419	39.839	-16.416	74.093	1.00	11.38
3166	O	PRO	A	419	39.923	-15.190	74.103	1.00	10.45
3167	N	GLY	A	420	38.695	-17.079	73.962	1.00	11.76
3168	CA	GLY	A	420	37.450	-16.399	73.722	1.00	11.23
3169	C	GLY	A	420	37.033	-15.379	74.720	1.00	10.49
3170	O	GLY	A	420	36.427	-14.431	74.387	1.00	9.42
3171	N	ARG	A	421	37.307	-15.581	75.979	1.00	11.63
3172	CA	ARG	A	421	36.563	-14.850	77.016	1.00	12.47
3173	CB	ARG	A	421	35.726	-15.801	77.888	1.00	12.85
3174	CG	ARG	A	421	36.327	-17.234	78.321	1.00	10.88
3175	CD	ARG	A	421	35.372	-18.405	78.118	1.00	8.44
3176	NE	ARG	A	421	35.375	-19.300	79.269	1.00	13.45
3177	CZ	ARG	A	421	34.774	-20.505	79.354	1.00	9.83
3178	NH1	ARG	A	421	34.100	-21.003	78.379	1.00	6.23
3179	NH2	ARG	A	421	34.791	-21.162	80.487	1.00	13.19
3180	C	ARG	A	421	37.417	-13.972	77.862	1.00	14.12
3181	O	ARG	A	421	38.648	-14.186	77.977	1.00	16.24
3182	N	ARG	A	422	36.759	-13.001	78.482	1.00	14.58
3183	CA	ARG	A	422	37.415	-12.061	79.386	1.00	15.26
3184	CB	ARG	A	422	37.430	-10.683	78.727	1.00	15.54
3185	CG	ARG	A	422	37.670	-10.707	77.166	1.00	18.58
3186	CD	ARG	A	422	39.160	-10.940	76.737	1.00	23.49
3187	NE	ARG	A	422	39.347	-10.982	75.276	1.00	25.95
3188	CZ	ARG	A	422	39.227	-9.919	74.494	1.00	29.72
3189	NH1	ARG	A	422	38.898	-8.739	75.007	1.00	32.29
3190	NH2	ARG	A	422	39.424	-10.013	73.184	1.00	30.66
3191	C	ARG	A	422	36.787	-12.067	80.816	1.00	15.03
3192	O	ARG	A	422	35.575	-11.827	80.950	1.00	16.53
3193	N	ASN	A	423	37.586	-12.435	81.857	1.00	13.32
3194	CA	ASN	A	423	37.149	-12.372	83.271	1.00	12.14
3195	CB	ASN	A	423	37.278	-13.690	83.969	1.00	11.18
3196	CG	ASN	A	423	36.250	-14.598	83.553	1.00	8.12
3197	OD1	ASN	A	423	36.486	-15.371	82.634	1.00	3.58
3198	ND2	ASN	A	423	35.058	-14.514	84.181	1.00	2.99
3199	C	ASN	A	423	38.028	-11.428	83.952	1.00	12.13
3200	O	ASN	A	423	39.069	-11.117	83.414	1.00	12.45
3201	N	ILE	A	424	37.644	-10.941	85.127	1.00	11.97
3202	CA	ILE	A	424	38.527	-9.998	85.814	1.00	12.40
3203	CB	ILE	A	424	37.815	-8.711	86.105	1.00	12.49
3204	CG1	ILE	A	424	37.081	-8.241	84.842	1.00	14.67

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3205	CD1	ILE	A	424	35.628	-8.335	85.010	1.00	18.34
3206	CG2	ILE	A	424	38.828	-7.602	86.372	1.00	13.47
3207	C	ILE	A	424	39.252	-10.595	87.031	1.00	12.07
3208	O	ILE	A	424	38.771	-11.433	87.699	1.00	11.87
3209	N	TYR	A	425	40.453	-10.105	87.248	1.00	12.30
3210	CA	TYR	A	425	41.388	-10.666	88.164	1.00	13.17
3211	CB	TYR	A	425	42.538	-11.296	87.372	1.00	13.85
3212	CG	TYR	A	425	42.185	-12.583	86.709	1.00	14.39
3213	CD1	TYR	A	425	42.615	-13.784	87.225	1.00	16.72
3214	CE1	TYR	A	425	42.318	-14.963	86.614	1.00	16.50
3215	CZ	TYR	A	425	41.591	-14.937	85.484	1.00	15.92
3216	OH	TYR	A	425	41.251	-16.120	84.894	1.00	17.68
3217	CE2	TYR	A	425	41.143	-13.747	84.967	1.00	17.86
3218	CD2	TYR	A	425	41.445	-12.599	85.585	1.00	14.23
3219	C	TYR	A	425	41.887	-9.526	89.056	1.00	12.52
3220	O	TYR	A	425	42.182	-8.422	88.572	1.00	13.05
3221	N	ARG	A	426	41.906	-9.780	90.355	1.00	10.67
3222	CA	ARG	A	426	42.381	-8.801	91.299	1.00	10.34
3223	CB	ARG	A	426	41.313	-8.559	92.371	1.00	10.34
3224	CG	ARG	A	426	41.682	-7.451	93.327	1.00	8.81
3225	CD	ARG	A	426	40.864	-7.413	94.607	1.00	12.89
3226	NE	ARG	A	426	41.270	-6.267	95.423	1.00	14.61
3227	CZ	ARG	A	426	40.494	-5.250	95.828	1.00	11.73
3228	NH1	ARG	A	426	41.046	-4.277	96.542	1.00	9.68
3229	NH2	ARG	A	426	39.182	-5.210	95.576	1.00	5.93
3230	C	ARG	A	426	43.612	-9.446	91.895	1.00	10.50
3231	O	ARG	A	426	43.503	-10.552	92.329	1.00	10.20
3232	N	ILE	A	427	44.778	-8.804	91.811	1.00	10.39
3233	CA	ILE	A	427	46.000	-9.264	92.461	1.00	10.85
3234	CB	ILE	A	427	47.176	-9.596	91.476	1.00	10.70
3235	CG1	ILE	A	427	47.624	-8.411	90.602	1.00	10.79
3236	CD1	ILE	A	427	48.574	-8.794	89.415	1.00	11.03
3237	CG2	ILE	A	427	46.827	-10.753	90.646	1.00	11.02
3238	C	ILE	A	427	46.473	-8.230	93.465	1.00	11.73
3239	O	ILE	A	427	46.012	-7.063	93.392	1.00	12.68
3240	N	SER	A	428	47.366	-8.651	94.403	1.00	10.55
3241	CA	SER	A	428	48.044	-7.722	95.336	1.00	11.38
3242	CB	SER	A	428	48.412	-8.412	96.600	1.00	10.03
3243	OG	SER	A	428	47.209	-8.858	97.154	1.00	8.52
3244	C	SER	A	428	49.314	-7.123	94.802	1.00	12.13
3245	O	SER	A	428	49.893	-7.636	93.858	1.00	11.39
3246	N	ILE	A	429	49.644	-5.951	95.351	1.00	13.26
3247	CA	ILE	A	429	50.925	-5.249	95.091	1.00	13.72
3248	CB	ILE	A	429	50.846	-4.073	93.985	1.00	13.63
3249	CG1	ILE	A	429	49.619	-3.169	94.158	1.00	13.68
3250	CD1	ILE	A	429	49.450	-1.981	93.069	1.00	12.45
3251	CG2	ILE	A	429	50.817	-4.659	92.561	1.00	13.30
3252	C	ILE	A	429	51.340	-4.707	96.426	1.00	14.64
3253	O	ILE	A	429	50.527	-4.182	97.188	1.00	15.37
3254	N	GLY	A	430	52.615	-4.882	96.739	1.00	14.86
3255	CA	GLY	A	430	53.204	-4.307	97.920	1.00	14.08

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3256	C	GLY	A	430	53.137	-5.274	99.055	1.00	13.92
3257	O	GLY	A	430	53.650	-4.956	100.131	1.00	14.46
3258	N	SER	A	431	52.534	-6.449	98.853	1.00	13.30
3259	CA	SER	A	431	52.412	-7.405	99.963	1.00	13.07
3260	CB	SER	A	431	50.992	-7.399	100.552	1.00	13.10
3261	OG	SER	A	431	50.036	-7.671	99.567	1.00	9.41
3262	C	SER	A	431	52.826	-8.829	99.623	1.00	13.14
3263	O	SER	A	431	52.551	-9.350	98.550	1.00	13.22
3264	N	TYR	A	432	53.497	-9.461	100.578	1.00	13.14
3265	CA	TYR	A	432	53.845	-10.846	100.445	1.00	12.96
3266	CB	TYR	A	432	55.327	-11.047	100.815	1.00	11.68
3267	CG	TYR	A	432	55.862	-12.424	100.484	1.00	11.21
3268	CD1	TYR	A	432	56.112	-12.814	99.169	1.00	10.85
3269	CE1	TYR	A	432	56.606	-14.166	98.909	1.00	10.91
3270	CZ	TYR	A	432	56.830	-15.073	100.010	1.00	8.09
3271	OH	TYR	A	432	57.279	-16.381	99.909	1.00	11.30
3272	CE2	TYR	A	432	56.587	-14.688	101.301	1.00	11.16
3273	CD2	TYR	A	432	56.132	-13.384	101.544	1.00	10.67
3274	C	TYR	A	432	52.700	-11.509	101.256	1.00	13.26
3275	O	TYR	A	432	52.058	-10.905	102.343	1.00	14.26
3276	N	PRO	A	433	52.661	-12.831	100.989	1.00	12.25
3277	CA	PRO	A	433	51.856	-13.538	100.026	1.00	11.56
3278	CB	PRO	A	433	50.925	-14.349	100.914	1.00	12.24
3279	CG	PRO	A	433	51.823	-14.967	101.788	1.00	11.17
3280	CD	PRO	A	433	53.043	-13.877	101.986	1.00	12.39
3281	C	PRO	A	433	51.098	-12.751	99.016	1.00	10.12
3282	O	PRO	A	433	50.073	-12.139	99.318	1.00	9.81
3283	N	PRO	A	434	51.578	-12.810	97.783	1.00	9.19
3284	CA	PRO	A	434	50.763	-12.347	96.724	1.00	8.66
3285	CB	PRO	A	434	51.604	-12.699	95.476	1.00	8.61
3286	CG	PRO	A	434	53.043	-12.485	96.014	1.00	7.54
3287	CD	PRO	A	434	52.889	-13.266	97.272	1.00	8.90
3288	C	PRO	A	434	49.388	-13.001	96.814	1.00	8.42
3289	O	PRO	A	434	49.234	-14.155	97.265	1.00	7.80
3290	N	SER	A	435	48.392	-12.192	96.395	1.00	9.27
3291	CA	SER	A	435	47.043	-12.656	96.230	1.00	9.85
3292	CB	SER	A	435	46.108	-11.716	96.957	1.00	8.64
3293	OG	SER	A	435	46.754	-11.358	98.144	1.00	10.22
3294	C	SER	A	435	46.786	-12.636	94.749	1.00	10.57
3295	O	SER	A	435	47.174	-11.667	94.046	1.00	11.15
3296	N	LYS	A	436	46.136	-13.702	94.272	1.00	11.45
3297	CA	LYS	A	436	45.459	-13.702	92.953	1.00	11.93
3298	CB	LYS	A	436	46.168	-14.647	91.980	1.00	12.33
3299	CG	LYS	A	436	46.180	-14.209	90.501	1.00	14.19
3300	CD	LYS	A	436	45.236	-14.972	89.568	1.00	18.35
3301	CE	LYS	A	436	45.939	-16.108	88.762	1.00	19.33
3302	NZ	LYS	A	436	46.703	-15.592	87.606	1.00	14.52
3303	C	LYS	A	436	43.984	-14.141	93.094	1.00	11.81
3304	O	LYS	A	436	43.700	-15.193	93.660	1.00	10.78
3305	N	LYS	A	437	43.045	-13.372	92.564	1.00	11.26
3306	CA	LYS	A	437	41.655	-13.766	92.671	1.00	11.98

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3307	CB	LYS	A	437	40.924	-13.013	93.793	1.00	12.12
3308	CG	LYS	A	437	39.368	-12.852	93.563	1.00	12.44
3309	CD	LYS	A	437	38.528	-12.843	94.862	1.00	17.97
3310	CE	LYS	A	437	38.234	-11.416	95.421	1.00	19.63
3311	NZ	LYS	A	437	36.745	-11.049	95.534	1.00	20.23
3312	C	LYS	A	437	40.981	-13.486	91.364	1.00	12.87
3313	O	LYS	A	437	41.104	-12.359	90.827	1.00	14.19
3314	N	CYS	A	438	40.250	-14.478	90.840	1.00	12.63
3315	CA	CYS	A	438	39.226	-14.209	89.809	1.00	11.26
3316	CB	CYS	A	438	39.055	-15.378	88.913	1.00	11.30
3317	SG	CYS	A	438	38.621	-14.783	87.318	1.00	15.83
3318	C	CYS	A	438	37.840	-13.759	90.303	1.00	10.40
3319	O	CYS	A	438	36.986	-14.568	90.682	1.00	9.57
3320	N	VAL	A	439	37.609	-12.450	90.217	1.00	9.63
3321	CA	VAL	A	439	36.359	-11.901	90.608	1.00	9.47
3322	CB	VAL	A	439	36.343	-10.410	90.394	1.00	9.89
3323	CG1	VAL	A	439	34.902	-9.796	90.650	1.00	9.54
3324	CG2	VAL	A	439	37.431	-9.756	91.289	1.00	8.80
3325	C	VAL	A	439	35.255	-12.562	89.854	1.00	9.73
3326	O	VAL	A	439	34.251	-12.887	90.445	1.00	9.91
3327	N	THR	A	440	35.415	-12.788	88.555	1.00	9.76
3328	CA	THR	A	440	34.247	-13.142	87.758	1.00	9.38
3329	CB	THR	A	440	33.981	-12.156	86.592	1.00	9.09
3330	OG1	THR	A	440	35.141	-11.928	85.772	1.00	9.20
3331	CG2	THR	A	440	33.622	-10.870	87.129	1.00	9.43
3332	C	THR	A	440	34.172	-14.533	87.221	1.00	9.55
3333	O	THR	A	440	33.088	-14.929	86.855	1.00	10.99
3334	N	CYS	A	441	35.264	-15.279	87.174	1.00	9.10
3335	CA	CYS	A	441	35.227	-16.673	86.658	1.00	10.56
3336	CB	CYS	A	441	36.536	-17.407	87.004	1.00	10.46
3337	SG	CYS	A	441	38.020	-16.496	86.350	1.00	19.33
3338	C	CYS	A	441	33.962	-17.504	87.060	1.00	9.80
3339	O	CYS	A	441	33.437	-18.320	86.297	1.00	8.39
3340	N	HIS	A	442	33.447	-17.223	88.240	1.00	10.65
3341	CA	HIS	A	442	32.464	-18.085	88.892	1.00	12.21
3342	CB	HIS	A	442	33.155	-18.893	90.037	1.00	12.54
3343	CG	HIS	A	442	33.673	-20.230	89.596	1.00	14.98
3344	ND1	HIS	A	442	35.022	-20.502	89.471	1.00	17.74
3345	CE1	HIS	A	442	35.180	-21.742	89.045	1.00	17.77
3346	NE2	HIS	A	442	33.981	-22.282	88.883	1.00	19.42
3347	CD2	HIS	A	442	33.020	-21.357	89.221	1.00	16.71
3348	C	HIS	A	442	31.261	-17.312	89.392	1.00	11.64
3349	O	HIS	A	442	30.324	-17.882	89.967	1.00	10.87
3350	N	LEU	A	443	31.274	-16.028	89.087	1.00	11.53
3351	CA	LEU	A	443	30.222	-15.127	89.456	1.00	11.44
3352	CB	LEU	A	443	30.554	-13.767	88.921	1.00	10.32
3353	CG	LEU	A	443	29.635	-12.726	89.506	1.00	11.14
3354	CD1	LEU	A	443	29.772	-12.720	91.024	1.00	11.35
3355	CD2	LEU	A	443	29.970	-11.362	88.875	1.00	10.44
3356	C	LEU	A	443	28.879	-15.628	88.930	1.00	12.11
3357	O	LEU	A	443	27.943	-15.800	89.725	1.00	11.92

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3358	N	ARG	A	444	28.811	-15.805	87.588	1.00	13.07
3359	CA	ARG	A	444	27.763	-16.553	86.865	1.00	13.65
3360	CB	ARG	A	444	26.656	-15.654	86.309	1.00	13.41
3361	CG	ARG	A	444	25.568	-15.128	87.257	1.00	13.69
3362	CD	ARG	A	444	25.072	-13.722	86.821	1.00	13.53
3363	NE	ARG	A	444	25.226	-12.660	87.824	1.00	14.33
3364	CZ	ARG	A	444	24.226	-12.143	88.534	1.00	14.40
3365	NH1	ARG	A	444	22.945	-12.555	88.383	1.00	16.56
3366	NH2	ARG	A	444	24.504	-11.221	89.430	1.00	11.57
3367	C	ARG	A	444	28.431	-17.376	85.706	1.00	14.32
3368	O	ARG	A	444	28.512	-16.935	84.532	1.00	13.60
3369	N	LYS	A	445	28.875	-18.593	86.061	1.00	14.58
3370	CA	LYS	A	445	29.894	-19.325	85.302	1.00	15.87
3371	CB	LYS	A	445	30.344	-20.647	86.016	1.00	16.52
3372	CG	LYS	A	445	30.507	-22.010	85.151	1.00	18.35
3373	CD	LYS	A	445	31.863	-22.782	85.419	1.00	19.22
3374	CE	LYS	A	445	32.743	-22.926	84.144	1.00	21.19
3375	NZ	LYS	A	445	32.964	-24.364	83.840	1.00	24.76
3376	C	LYS	A	445	29.401	-19.572	83.926	1.00	15.80
3377	O	LYS	A	445	30.173	-19.482	82.991	1.00	16.74
3378	N	GLU	A	446	28.105	-19.814	83.796	1.00	15.95
3379	CA	GLU	A	446	27.526	-20.323	82.565	1.00	15.98
3380	CB	GLU	A	446	26.444	-21.323	82.932	1.00	16.25
3381	CG	GLU	A	446	25.300	-21.385	81.951	1.00	19.85
3382	CD	GLU	A	446	24.785	-22.802	81.719	1.00	22.86
3383	OE1	GLU	A	446	24.420	-23.156	80.560	1.00	20.81
3384	OE2	GLU	A	446	24.766	-23.569	82.694	1.00	24.63
3385	C	GLU	A	446	27.032	-19.177	81.674	1.00	15.58
3386	O	GLU	A	446	27.148	-19.230	80.429	1.00	15.49
3387	N	ARG	A	447	26.544	-18.113	82.316	1.00	14.86
3388	CA	ARG	A	447	25.978	-16.939	81.610	1.00	13.84
3389	CB	ARG	A	447	24.948	-16.326	82.536	1.00	13.45
3390	CG	ARG	A	447	24.023	-15.341	81.887	1.00	14.18
3391	CD	ARG	A	447	23.128	-14.705	82.880	1.00	15.23
3392	NE	ARG	A	447	22.554	-13.474	82.403	1.00	16.96
3393	CZ	ARG	A	447	21.648	-12.743	83.060	1.00	15.50
3394	NH1	ARG	A	447	21.195	-11.610	82.527	1.00	13.66
3395	NH2	ARG	A	447	21.203	-13.125	84.223	1.00	14.18
3396	C	ARG	A	447	26.991	-15.834	81.231	1.00	13.36
3397	O	ARG	A	447	26.986	-15.251	80.142	1.00	13.22
3398	N	CYS	A	448	27.824	-15.503	82.195	1.00	13.40
3399	CA	CYS	A	448	28.856	-14.508	82.019	1.00	12.72
3400	CB	CYS	A	448	28.648	-13.455	83.051	1.00	12.44
3401	SG	CYS	A	448	26.998	-12.854	82.768	1.00	13.33
3402	C	CYS	A	448	30.278	-15.051	82.027	1.00	12.50
3403	O	CYS	A	448	30.802	-15.506	83.048	1.00	13.96
3404	N	GLN	A	449	30.871	-15.054	80.834	1.00	12.49
3405	CA	GLN	A	449	32.271	-15.252	80.671	1.00	11.22
3406	CB	GLN	A	449	32.522	-16.577	79.949	1.00	10.73
3407	CG	GLN	A	449	32.470	-17.799	80.788	1.00	8.21
3408	CD	GLN	A	449	33.354	-17.782	82.006	1.00	8.58

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3409	OE1	GLN	A	449	32.876	-18.043	83.073	1.00	11.80
3410	NE2	GLN	A	449	34.636	-17.517	81.852	1.00	8.87
3411	C	GLN	A	449	32.851	-14.115	79.845	1.00	11.83
3412	O	GLN	A	449	33.976	-14.283	79.370	1.00	12.83
3413	N	TYR	A	450	32.162	-12.982	79.635	1.00	11.02
3414	CA	TYR	A	450	32.821	-11.891	78.881	1.00	11.47
3415	CB	TYR	A	450	32.435	-11.901	77.389	1.00	11.93
3416	CG	TYR	A	450	33.387	-11.116	76.477	1.00	13.91
3417	CD1	TYR	A	450	34.233	-11.745	75.592	1.00	14.49
3418	CE1	TYR	A	450	35.076	-11.019	74.810	1.00	14.78
3419	CZ	TYR	A	450	35.087	-9.664	74.898	1.00	13.72
3420	OH	TYR	A	450	35.876	-8.924	74.120	1.00	16.82
3421	CE2	TYR	A	450	34.286	-9.034	75.730	1.00	14.98
3422	CD2	TYR	A	450	33.459	-9.748	76.540	1.00	16.44
3423	C	TYR	A	450	32.516	-10.510	79.508	1.00	11.82
3424	O	TYR	A	450	31.422	-9.907	79.391	1.00	11.96
3425	N	TYR	A	451	33.512	-10.008	80.193	1.00	11.06
3426	CA	TYR	A	451	33.270	-8.927	81.093	1.00	10.71
3427	CB	TYR	A	451	33.633	-9.359	82.496	1.00	9.84
3428	CG	TYR	A	451	32.630	-10.122	83.196	1.00	8.93
3429	CD1	TYR	A	451	31.640	-9.502	83.929	1.00	9.60
3430	CE1	TYR	A	451	30.682	-10.270	84.651	1.00	14.38
3431	CZ	TYR	A	451	30.784	-11.649	84.632	1.00	16.38
3432	OH	TYR	A	451	29.941	-12.490	85.347	1.00	14.32
3433	CE2	TYR	A	451	31.778	-12.240	83.888	1.00	14.98
3434	CD2	TYR	A	451	32.682	-11.487	83.185	1.00	10.85
3435	C	TYR	A	451	34.217	-7.857	80.813	1.00	11.04
3436	O	TYR	A	451	35.349	-8.185	80.522	1.00	10.33
3437	N	THR	A	452	33.760	-6.623	81.023	1.00	11.90
3438	CA	THR	A	452	34.628	-5.459	81.223	1.00	13.92
3439	CB	THR	A	452	34.443	-4.397	80.074	1.00	14.49
3440	OG1	THR	A	452	35.401	-3.346	80.259	1.00	16.37
3441	CG2	THR	A	452	33.009	-3.637	80.096	1.00	11.89
3442	C	THR	A	452	34.383	-4.799	82.589	1.00	14.84
3443	O	THR	A	452	33.625	-5.334	83.367	1.00	14.95
3444	N	ALA	A	453	35.037	-3.662	82.904	1.00	15.55
3445	CA	ALA	A	453	34.757	-2.977	84.181	1.00	16.62
3446	CB	ALA	A	453	35.670	-3.459	85.241	1.00	16.15
3447	C	ALA	A	453	34.881	-1.456	84.109	1.00	17.84
3448	O	ALA	A	453	35.664	-0.912	83.278	1.00	18.26
3449	N	SER	A	454	34.149	-0.791	85.029	1.00	17.70
3450	CA	SER	A	454	34.198	0.628	85.188	1.00	17.33
3451	CB	SER	A	454	32.872	1.254	84.791	1.00	17.78
3452	OG	SER	A	454	32.975	2.681	84.847	1.00	19.62
3453	C	SER	A	454	34.446	0.930	86.619	1.00	17.52
3454	O	SER	A	454	33.557	0.765	87.430	1.00	18.34
3455	N	PHE	A	455	35.637	1.432	86.919	1.00	17.09
3456	CA	PHE	A	455	36.009	1.817	88.275	1.00	17.10
3457	CB	PHE	A	455	37.516	1.580	88.542	1.00	17.22
3458	CG	PHE	A	455	37.860	0.171	88.582	1.00	16.23
3459	CD1	PHE	A	455	37.824	-0.587	87.407	1.00	14.30

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3460	CE1	PHE	A	455	38.084	-1.950	87.422	1.00	13.93
3461	CZ	PHE	A	455	38.375	-2.569	88.620	1.00	16.10
3462	CE2	PHE	A	455	38.388	-1.831	89.803	1.00	17.00
3463	CD2	PHE	A	455	38.118	-0.440	89.771	1.00	14.22
3464	C	PHE	A	455	35.743	3.248	88.608	1.00	16.83
3465	O	PHE	A	455	36.235	4.162	87.966	1.00	15.02
3466	N	SER	A	456	34.993	3.424	89.678	1.00	17.08
3467	CA	SER	A	456	34.995	4.693	90.395	1.00	18.13
3468	CB	SER	A	456	34.209	4.549	91.677	1.00	18.75
3469	OG	SER	A	456	34.143	5.784	92.355	1.00	21.01
3470	C	SER	A	456	36.401	5.199	90.780	1.00	18.57
3471	O	SER	A	456	37.367	4.414	90.887	1.00	19.20
3472	N	ASP	A	457	36.459	6.521	91.018	1.00	18.71
3473	CA	ASP	A	457	37.584	7.203	91.615	1.00	18.17
3474	CB	ASP	A	457	37.247	8.657	92.013	1.00	18.08
3475	CG	ASP	A	457	37.033	9.548	90.837	1.00	17.42
3476	OD1	ASP	A	457	37.163	10.760	90.966	1.00	18.94
3477	OD2	ASP	A	457	36.734	9.124	89.733	1.00	18.51
3478	C	ASP	A	457	38.020	6.494	92.860	1.00	18.13
3479	O	ASP	A	457	37.208	6.157	93.743	1.00	17.23
3480	N	TYR	A	458	39.339	6.305	92.911	1.00	18.68
3481	CA	TYR	A	458	40.005	5.834	94.077	1.00	19.02
3482	CB	TYR	A	458	39.504	6.640	95.326	1.00	19.36
3483	CG	TYR	A	458	39.984	8.111	95.379	1.00	21.40
3484	CD1	TYR	A	458	41.323	8.397	95.563	1.00	22.37
3485	CE1	TYR	A	458	41.796	9.674	95.610	1.00	25.56
3486	CZ	TYR	A	458	40.955	10.732	95.464	1.00	26.81
3487	OH	TYR	A	458	41.547	11.971	95.564	1.00	29.63
3488	CE2	TYR	A	458	39.593	10.514	95.266	1.00	25.24
3489	CD2	TYR	A	458	39.112	9.195	95.242	1.00	23.83
3490	C	TYR	A	458	39.731	4.323	94.121	1.00	18.96
3491	O	TYR	A	458	40.080	3.641	95.107	1.00	18.40
3492	N	ALA	A	459	39.134	3.807	93.029	1.00	18.90
3493	CA	ALA	A	459	38.612	2.415	92.950	1.00	18.62
3494	CB	ALA	A	459	39.776	1.418	92.900	1.00	19.08
3495	C	ALA	A	459	37.693	2.023	94.087	1.00	18.16
3496	O	ALA	A	459	37.733	0.885	94.564	1.00	17.68
3497	N	LYS	A	460	36.896	2.965	94.562	1.00	17.55
3498	CA	LYS	A	460	36.160	2.691	95.778	1.00	17.51
3499	CB	LYS	A	460	35.710	3.981	96.480	1.00	17.28
3500	CG	LYS	A	460	36.260	4.125	97.943	1.00	20.33
3501	CD	LYS	A	460	36.534	5.618	98.372	1.00	23.22
3502	CE	LYS	A	460	35.250	6.451	98.556	1.00	22.99
3503	NZ	LYS	A	460	34.511	6.034	99.790	1.00	22.93
3504	C	LYS	A	460	35.012	1.724	95.448	1.00	16.83
3505	O	LYS	A	460	34.571	0.989	96.307	1.00	15.95
3506	N	TYR	A	461	34.591	1.689	94.185	1.00	16.12
3507	CA	TYR	A	461	33.478	0.847	93.744	1.00	14.92
3508	CB	TYR	A	461	32.105	1.551	93.916	1.00	14.60
3509	CG	TYR	A	461	31.661	1.689	95.340	1.00	11.53
3510	CD1	TYR	A	461	31.011	0.655	95.980	1.00	10.27

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3511	CE1	TYR	A	461	30.636	0.749	97.307	1.00	9.63
3512	CZ	TYR	A	461	30.885	1.895	97.993	1.00	9.31
3513	OH	TYR	A	461	30.532	1.978	99.305	1.00	10.92
3514	CE2	TYR	A	461	31.551	2.938	97.380	1.00	9.17
3515	CD2	TYR	A	461	31.938	2.825	96.054	1.00	9.42
3516	C	TYR	A	461	33.679	0.587	92.283	1.00	15.44
3517	O	TYR	A	461	34.052	1.484	91.545	1.00	16.61
3518	N	TYR	A	462	33.401	-0.622	91.815	1.00	15.32
3519	CA	TYR	A	462	33.430	-0.841	90.371	1.00	14.30
3520	CB	TYR	A	462	34.752	-1.516	89.960	1.00	13.82
3521	CG	TYR	A	462	34.897	-2.895	90.489	1.00	12.24
3522	CD1	TYR	A	462	34.290	-3.934	89.840	1.00	11.05
3523	CE1	TYR	A	462	34.386	-5.259	90.311	1.00	13.08
3524	CZ	TYR	A	462	35.116	-5.538	91.449	1.00	9.79
3525	OH	TYR	A	462	35.167	-6.885	91.878	1.00	9.89
3526	CE2	TYR	A	462	35.747	-4.462	92.141	1.00	11.11
3527	CD2	TYR	A	462	35.611	-3.160	91.661	1.00	11.74
3528	C	TYR	A	462	32.208	-1.613	89.829	1.00	14.59
3529	O	TYR	A	462	31.678	-2.522	90.473	1.00	13.21
3530	N	ALA	A	463	31.803	-1.215	88.614	1.00	15.48
3531	CA	ALA	A	463	30.721	-1.844	87.883	1.00	16.23
3532	CB	ALA	A	463	30.005	-0.811	87.074	1.00	15.36
3533	C	ALA	A	463	31.270	-2.968	86.981	1.00	17.36
3534	O	ALA	A	463	32.475	-2.986	86.629	1.00	18.34
3535	N	LEU	A	464	30.396	-3.884	86.583	1.00	17.11
3536	CA	LEU	A	464	30.852	-5.099	85.914	1.00	16.79
3537	CB	LEU	A	464	30.936	-6.240	86.938	1.00	16.32
3538	CG	LEU	A	464	32.085	-7.226	86.924	1.00	14.93
3539	CD1	LEU	A	464	31.898	-8.123	88.070	1.00	14.75
3540	CD2	LEU	A	464	33.453	-6.600	87.002	1.00	14.81
3541	C	LEU	A	464	29.874	-5.421	84.783	1.00	16.29
3542	O	LEU	A	464	28.730	-5.776	85.036	1.00	17.65
3543	N	VAL	A	465	30.309	-5.248	83.541	1.00	16.12
3544	CA	VAL	A	465	29.449	-5.486	82.413	1.00	14.84
3545	CB	VAL	A	465	29.333	-4.270	81.419	1.00	15.32
3546	CG1	VAL	A	465	27.977	-4.312	80.712	1.00	13.36
3547	CG2	VAL	A	465	29.429	-2.990	82.143	1.00	13.04
3548	C	VAL	A	465	29.917	-6.762	81.768	1.00	14.79
3549	O	VAL	A	465	31.087	-6.909	81.342	1.00	13.35
3550	N	CYS	A	466	28.971	-7.704	81.811	1.00	15.42
3551	CA	CYS	A	466	29.088	-9.054	81.227	1.00	15.80
3552	CB	CYS	A	466	28.481	-10.133	82.150	1.00	15.76
3553	SG	CYS	A	466	27.607	-11.501	81.332	1.00	17.27
3554	C	CYS	A	466	28.293	-8.950	79.949	1.00	16.11
3555	O	CYS	A	466	27.129	-8.426	79.969	1.00	16.58
3556	N	TYR	A	467	28.920	-9.416	78.857	1.00	15.07
3557	CA	TYR	A	467	28.442	-9.162	77.501	1.00	13.93
3558	CB	TYR	A	467	29.551	-8.576	76.679	1.00	13.13
3559	CG	TYR	A	467	29.672	-7.090	76.763	1.00	13.61
3560	CD1	TYR	A	467	28.684	-6.302	76.294	1.00	15.60
3561	CE1	TYR	A	467	28.774	-4.961	76.328	1.00	15.92

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3562	CZ	TYR	A	467	29.879	-4.342	76.838	1.00	15.16
3563	OH	TYR	A	467	29.854	-2.969	76.806	1.00	19.10
3564	CE2	TYR	A	467	30.920	-5.062	77.311	1.00	10.22
3565	CD2	TYR	A	467	30.810	-6.463	77.285	1.00	12.65
3566	C	TYR	A	467	27.943	-10.416	76.835	1.00	13.08
3567	O	TYR	A	467	27.251	-10.277	75.832	1.00	13.81
3568	N	GLY	A	468	28.302	-11.596	77.370	1.00	11.59
3569	CA	GLY	A	468	27.803	-12.914	76.938	1.00	10.36
3570	C	GLY	A	468	28.378	-14.086	77.702	1.00	9.84
3571	O	GLY	A	468	29.142	-13.870	78.594	1.00	10.34
3572	N	PRO	A	469	28.115	-15.337	77.357	1.00	9.58
3573	CA	PRO	A	469	27.376	-15.778	76.174	1.00	9.22
3574	CB	PRO	A	469	27.903	-17.209	75.931	1.00	9.10
3575	CG	PRO	A	469	28.706	-17.596	77.143	1.00	8.53
3576	CD	PRO	A	469	28.628	-16.495	78.112	1.00	8.97
3577	C	PRO	A	469	25.887	-15.804	76.331	1.00	8.82
3578	O	PRO	A	469	25.229	-15.605	75.334	1.00	9.39
3579	N	GLY	A	470	25.364	-16.059	77.516	1.00	9.04
3580	CA	GLY	A	470	23.953	-15.721	77.800	1.00	8.61
3581	C	GLY	A	470	23.675	-14.221	77.693	1.00	7.97
3582	O	GLY	A	470	24.582	-13.466	77.450	1.00	7.08
3583	N	ILE	A	471	22.421	-13.812	77.859	1.00	7.64
3584	CA	ILE	A	471	22.049	-12.397	77.985	1.00	7.12
3585	CB	ILE	A	471	20.701	-12.330	78.632	1.00	6.11
3586	CG1	ILE	A	471	19.598	-12.613	77.632	1.00	6.22
3587	CD1	ILE	A	471	18.795	-13.957	77.839	1.00	8.05
3588	CG2	ILE	A	471	20.518	-11.008	79.204	1.00	6.70
3589	C	ILE	A	471	23.013	-11.601	78.888	1.00	7.61
3590	O	ILE	A	471	23.303	-12.068	79.964	1.00	9.03
3591	N	PRO	A	472	23.521	-10.440	78.471	1.00	8.44
3592	CA	PRO	A	472	24.197	-9.498	79.363	1.00	8.51
3593	CB	PRO	A	472	24.482	-8.296	78.469	1.00	7.94
3594	CG	PRO	A	472	24.609	-8.830	77.181	1.00	8.29
3595	CD	PRO	A	472	23.610	-9.969	77.075	1.00	9.21
3596	C	PRO	A	472	23.365	-8.966	80.506	1.00	9.89
3597	O	PRO	A	472	22.136	-8.932	80.498	1.00	10.20
3598	N	ILE	A	473	24.128	-8.438	81.461	1.00	10.61
3599	CA	ILE	A	473	23.703	-8.115	82.801	1.00	9.90
3600	CB	ILE	A	473	23.562	-9.370	83.737	1.00	10.14
3601	CG1	ILE	A	473	23.766	-8.978	85.211	1.00	9.80
3602	CD1	ILE	A	473	22.672	-9.403	86.125	1.00	11.24
3603	CG2	ILE	A	473	24.598	-10.491	83.423	1.00	8.91
3604	C	ILE	A	473	24.867	-7.337	83.237	1.00	9.78
3605	O	ILE	A	473	25.993	-7.691	82.933	1.00	9.96
3606	N	SER	A	474	24.589	-6.298	83.983	1.00	10.64
3607	CA	SER	A	474	25.588	-5.410	84.506	1.00	12.01
3608	CB	SER	A	474	25.479	-4.086	83.770	1.00	11.73
3609	OG	SER	A	474	24.497	-4.132	82.702	1.00	15.57
3610	C	SER	A	474	25.316	-5.275	86.021	1.00	13.05
3611	O	SER	A	474	24.126	-5.342	86.497	1.00	13.14
3612	N	THR	A	475	26.409	-5.111	86.778	1.00	13.21

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3613	CA	THR	A	475	26.403	-5.281	88.231	1.00	13.45
3614	CB	THR	A	475	26.849	-6.717	88.611	1.00	13.25
3615	OG1	THR	A	475	28.035	-7.056	87.888	1.00	16.72
3616	CG2	THR	A	475	25.839	-7.748	88.127	1.00	12.51
3617	C	THR	A	475	27.323	-4.257	88.905	1.00	13.81
3618	O	THR	A	475	28.105	-3.547	88.240	1.00	15.25
3619	N	LEU	A	476	27.185	-4.172	90.229	1.00	12.93
3620	CA	LEU	A	476	27.904	-3.183	91.043	1.00	10.97
3621	CB	LEU	A	476	26.972	-2.097	91.551	1.00	9.94
3622	CG	LEU	A	476	27.795	-0.959	92.114	1.00	7.39
3623	CD1	LEU	A	476	28.804	-0.415	91.050	1.00	4.37
3624	CD2	LEU	A	476	26.868	0.087	92.647	1.00	2.00
3625	C	LEU	A	476	28.597	-3.871	92.192	1.00	9.67
3626	O	LEU	A	476	28.029	-4.769	92.768	1.00	9.52
3627	N	HIS	A	477	29.841	-3.485	92.455	1.00	9.11
3628	CA	HIS	A	477	30.726	-4.234	93.369	1.00	9.59
3629	CB	HIS	A	477	31.748	-5.090	92.582	1.00	8.92
3630	CG	HIS	A	477	31.089	-6.127	91.750	1.00	8.79
3631	ND1	HIS	A	477	31.067	-7.461	92.105	1.00	10.73
3632	CE1	HIS	A	477	30.301	-8.122	91.258	1.00	7.06
3633	NE2	HIS	A	477	29.821	-7.261	90.378	1.00	9.36
3634	CD2	HIS	A	477	30.309	-6.010	90.659	1.00	7.26
3635	C	HIS	A	477	31.454	-3.295	94.327	1.00	10.29
3636	O	HIS	A	477	31.646	-2.087	94.017	1.00	10.17
3637	N	ASP	A	478	31.905	-3.878	95.436	1.00	10.08
3638	CA	ASP	A	478	32.618	-3.172	96.470	1.00	11.22
3639	CB	ASP	A	478	32.484	-3.965	97.749	1.00	11.06
3640	CG	ASP	A	478	32.962	-3.221	98.912	1.00	14.96
3641	OD1	ASP	A	478	34.148	-3.349	99.208	1.00	19.00
3642	OD2	ASP	A	478	32.243	-2.449	99.595	1.00	20.34
3643	C	ASP	A	478	34.104	-2.931	96.154	1.00	11.09
3644	O	ASP	A	478	34.648	-1.809	96.179	1.00	11.34
3645	N	GLY	A	479	34.771	-3.994	95.808	1.00	10.66
3646	CA	GLY	A	479	36.201	-3.892	95.637	1.00	11.01
3647	C	GLY	A	479	36.952	-2.922	96.542	1.00	11.18
3648	O	GLY	A	479	37.559	-1.926	96.102	1.00	11.17
3649	N	ARG	A	480	36.743	-3.162	97.815	1.00	10.70
3650	CA	ARG	A	480	37.808	-3.529	98.738	1.00	11.52
3651	CB	ARG	A	480	37.655	-2.653	99.994	1.00	12.29
3652	CG	ARG	A	480	38.539	-2.950	101.186	1.00	12.41
3653	CD	ARG	A	480	37.859	-2.625	102.519	1.00	15.43
3654	NE	ARG	A	480	36.904	-3.700	102.871	1.00	14.24
3655	CZ	ARG	A	480	36.855	-4.388	104.005	1.00	8.47
3656	NH1	ARG	A	480	35.920	-5.303	104.149	1.00	4.98
3657	NH2	ARG	A	480	37.682	-4.143	105.007	1.00	12.43
3658	C	ARG	A	480	37.673	-5.125	99.004	1.00	11.62
3659	O	ARG	A	480	38.627	-5.811	99.501	1.00	12.53
3660	N	THR	A	481	36.501	-5.640	98.555	1.00	10.42
3661	CA	THR	A	481	35.818	-6.898	98.864	1.00	9.72
3662	CB	THR	A	481	34.499	-6.493	99.623	1.00	9.23
3663	OG1	THR	A	481	34.373	-7.220	100.822	1.00	8.52

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3664	CG2	THR	A	481	33.220	-6.862	98.982	1.00	7.49
3665	C	THR	A	481	35.454	-7.672	97.580	1.00	10.22
3666	O	THR	A	481	35.443	-8.887	97.535	1.00	10.39
3667	N	ASP	A	482	35.097	-6.915	96.548	1.00	11.83
3668	CA	ASP	A	482	34.619	-7.365	95.217	1.00	11.65
3669	CB	ASP	A	482	35.571	-8.375	94.655	1.00	12.02
3670	CG	ASP	A	482	37.062	-7.924	94.760	1.00	13.28
3671	OD1	ASP	A	482	37.466	-7.043	95.548	1.00	16.27
3672	OD2	ASP	A	482	37.939	-8.434	94.068	1.00	14.80
3673	C	ASP	A	482	33.191	-7.890	95.254	1.00	11.61
3674	O	ASP	A	482	32.667	-8.174	94.240	1.00	11.00
3675	N	GLN	A	483	32.563	-7.968	96.441	1.00	12.56
3676	CA	GLN	A	483	31.155	-8.409	96.623	1.00	13.37
3677	CB	GLN	A	483	30.692	-8.388	98.116	1.00	14.11
3678	CG	GLN	A	483	29.194	-8.903	98.389	1.00	19.68
3679	CD	GLN	A	483	28.932	-10.458	98.099	1.00	27.86
3680	OE1	GLN	A	483	27.766	-10.880	97.917	1.00	30.80
3681	NE2	GLN	A	483	30.008	-11.278	98.080	1.00	28.76
3682	C	GLN	A	483	30.149	-7.649	95.739	1.00	11.89
3683	O	GLN	A	483	30.245	-6.460	95.546	1.00	11.84
3684	N	GLU	A	484	29.182	-8.390	95.242	1.00	10.96
3685	CA	GLU	A	484	28.169	-7.861	94.397	1.00	10.43
3686	CB	GLU	A	484	27.582	-8.960	93.527	1.00	10.55
3687	CG	GLU	A	484	26.699	-8.417	92.384	1.00	14.43
3688	CD	GLU	A	484	25.960	-9.538	91.674	1.00	19.06
3689	OE1	GLU	A	484	24.697	-9.571	91.709	1.00	20.27
3690	OE2	GLU	A	484	26.664	-10.406	91.092	1.00	21.19
3691	C	GLU	A	484	27.053	-7.195	95.195	1.00	10.19
3692	O	GLU	A	484	26.377	-7.865	95.991	1.00	9.15
3693	N	ILE	A	485	26.798	-5.923	94.862	1.00	10.27
3694	CA	ILE	A	485	25.932	-5.008	95.630	1.00	10.02
3695	CB	ILE	A	485	26.684	-3.663	95.794	1.00	9.87
3696	CG1	ILE	A	485	27.862	-3.897	96.770	1.00	10.48
3697	CD1	ILE	A	485	28.746	-2.705	97.021	1.00	10.91
3698	CG2	ILE	A	485	25.737	-2.564	96.188	1.00	8.04
3699	C	ILE	A	485	24.510	-4.812	95.052	1.00	10.17
3700	O	ILE	A	485	23.546	-5.148	95.720	1.00	8.08
3701	N	LYS	A	486	24.373	-4.236	93.851	1.00	10.24
3702	CA	LYS	A	486	23.168	-4.492	93.039	1.00	11.66
3703	CB	LYS	A	486	22.069	-3.403	93.042	1.00	11.49
3704	CG	LYS	A	486	22.306	-2.205	93.871	1.00	15.18
3705	CD	LYS	A	486	22.775	-0.979	93.050	1.00	18.25
3706	CE	LYS	A	486	22.494	0.415	93.813	1.00	22.51
3707	NZ	LYS	A	486	22.133	0.333	95.326	1.00	19.50
3708	C	LYS	A	486	23.485	-4.824	91.581	1.00	12.70
3709	O	LYS	A	486	24.432	-4.273	90.944	1.00	13.17
3710	N	ILE	A	487	22.671	-5.757	91.081	1.00	12.91
3711	CA	ILE	A	487	22.318	-5.871	89.660	1.00	13.71
3712	CB	ILE	A	487	21.202	-7.007	89.496	1.00	13.21
3713	CG1	ILE	A	487	21.647	-8.363	90.090	1.00	11.99
3714	CD1	ILE	A	487	20.498	-9.343	90.384	1.00	11.90

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3715	CG2	ILE	A	487	20.849	-7.139	88.054	1.00	14.66
3716	C	ILE	A	487	21.827	-4.502	89.070	1.00	13.29
3717	O	ILE	A	487	20.705	-4.077	89.340	1.00	14.46
3718	N	LEU	A	488	22.671	-3.829	88.269	1.00	12.94
3719	CA	LEU	A	488	22.406	-2.476	87.683	1.00	11.84
3720	CB	LEU	A	488	23.694	-1.837	87.266	1.00	10.56
3721	CG	LEU	A	488	24.780	-1.694	88.276	1.00	8.39
3722	CD1	LEU	A	488	26.008	-1.078	87.664	1.00	5.54
3723	CD2	LEU	A	488	24.259	-0.866	89.375	1.00	10.40
3724	C	LEU	A	488	21.553	-2.477	86.429	1.00	13.03
3725	O	LEU	A	488	20.838	-1.485	86.176	1.00	13.37
3726	N	GLU	A	489	21.709	-3.545	85.619	1.00	13.74
3727	CA	GLU	A	489	20.836	-3.883	84.464	1.00	14.49
3728	CB	GLU	A	489	21.155	-3.020	83.216	1.00	15.20
3729	CG	GLU	A	489	20.317	-3.358	81.957	1.00	16.38
3730	CD	GLU	A	489	18.798	-3.264	82.140	1.00	19.14
3731	OE1	GLU	A	489	18.225	-2.130	82.170	1.00	20.61
3732	OE2	GLU	A	489	18.153	-4.324	82.222	1.00	22.26
3733	C	GLU	A	489	20.890	-5.375	84.077	1.00	14.38
3734	O	GLU	A	489	21.937	-5.913	83.766	1.00	14.41
3735	N	GLU	A	490	19.721	-5.995	84.046	1.00	14.59
3736	CA	GLU	A	490	19.557	-7.462	84.001	1.00	15.07
3737	CB	GLU	A	490	18.594	-7.855	85.186	1.00	15.54
3738	CG	GLU	A	490	18.446	-9.331	85.628	1.00	16.77
3739	CD	GLU	A	490	17.757	-9.458	87.009	1.00	20.41
3740	OE1	GLU	A	490	16.902	-10.353	87.182	1.00	22.54
3741	OE2	GLU	A	490	18.039	-8.649	87.946	1.00	20.30
3742	C	GLU	A	490	18.947	-7.898	82.671	1.00	13.71
3743	O	GLU	A	490	18.953	-9.074	82.355	1.00	12.93
3744	N	ASN	A	491	18.469	-6.917	81.901	1.00	14.21
3745	CA	ASN	A	491	17.386	-7.030	80.864	1.00	13.72
3746	CB	ASN	A	491	17.889	-6.740	79.421	1.00	13.76
3747	CG	ASN	A	491	19.361	-7.050	79.257	1.00	10.49
3748	OD1	ASN	A	491	20.132	-6.212	78.835	1.00	9.68
3749	ND2	ASN	A	491	19.749	-8.257	79.623	1.00	5.82
3750	C	ASN	A	491	16.577	-8.305	80.885	1.00	13.89
3751	O	ASN	A	491	16.812	-9.228	80.116	1.00	12.98
3752	N	LYS	A	492	15.616	-8.311	81.795	1.00	14.35
3753	CA	LYS	A	492	14.543	-9.276	81.780	1.00	15.37
3754	CB	LYS	A	492	13.768	-9.256	83.148	1.00	15.25
3755	CG	LYS	A	492	14.638	-9.705	84.375	1.00	16.86
3756	CD	LYS	A	492	13.978	-10.713	85.343	1.00	19.26
3757	CE	LYS	A	492	13.527	-12.076	84.691	1.00	22.59
3758	NZ	LYS	A	492	12.198	-12.628	85.251	1.00	25.29
3759	C	LYS	A	492	13.631	-9.048	80.537	1.00	15.22
3760	O	LYS	A	492	13.199	-10.002	79.925	1.00	15.47
3761	N	GLU	A	493	13.321	-7.814	80.154	1.00	15.46
3762	CA	GLU	A	493	12.511	-7.600	78.899	1.00	17.01
3763	CB	GLU	A	493	12.234	-6.106	78.473	1.00	17.25
3764	CG	GLU	A	493	13.275	-5.039	78.839	1.00	19.82
3765	CD	GLU	A	493	13.444	-4.875	80.354	1.00	22.93

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3766	OE1	GLU	A	493	14.626	-4.607	80.754	1.00	25.06
3767	OE2	GLU	A	493	12.426	-5.075	81.113	1.00	19.74
3768	C	GLU	A	493	13.068	-8.368	77.675	1.00	16.27
3769	O	GLU	A	493	12.341	-9.126	77.045	1.00	17.24
3770	N	LEU	A	494	14.324	-8.154	77.342	1.00	15.39
3771	CA	LEU	A	494	15.000	-9.020	76.390	1.00	14.45
3772	CB	LEU	A	494	16.464	-8.673	76.376	1.00	13.55
3773	CG	LEU	A	494	17.236	-8.994	75.111	1.00	15.69
3774	CD1	LEU	A	494	18.613	-9.467	75.481	1.00	16.62
3775	CD2	LEU	A	494	16.615	-9.950	74.065	1.00	12.90
3776	C	LEU	A	494	14.880	-10.558	76.687	1.00	14.70
3777	O	LEU	A	494	14.563	-11.348	75.777	1.00	13.48
3778	N	GLU	A	495	15.142	-10.984	77.934	1.00	14.49
3779	CA	GLU	A	495	14.950	-12.424	78.354	1.00	15.14
3780	CB	GLU	A	495	15.186	-12.617	79.886	1.00	15.34
3781	CG	GLU	A	495	15.916	-13.903	80.260	1.00	17.23
3782	CD	GLU	A	495	15.498	-14.516	81.604	1.00	21.30
3783	OE1	GLU	A	495	15.172	-15.731	81.597	1.00	22.67
3784	OE2	GLU	A	495	15.502	-13.799	82.659	1.00	23.69
3785	C	GLU	A	495	13.571	-13.003	78.031	1.00	15.01
3786	O	GLU	A	495	13.415	-14.182	77.804	1.00	15.70
3787	N	ASN	A	496	12.563	-12.160	78.047	1.00	15.18
3788	CA	ASN	A	496	11.211	-12.657	77.989	1.00	16.91
3789	CB	ASN	A	496	10.278	-11.878	78.965	1.00	16.61
3790	CG	ASN	A	496	10.380	-12.392	80.434	1.00	18.02
3791	OD1	ASN	A	496	10.392	-13.601	80.708	1.00	20.05
3792	ND2	ASN	A	496	10.482	-11.461	81.364	1.00	18.03
3793	C	ASN	A	496	10.729	-12.606	76.544	1.00	17.29
3794	O	ASN	A	496	9.831	-13.349	76.162	1.00	18.57
3795	N	ALA	A	497	11.326	-11.762	75.719	1.00	17.36
3796	CA	ALA	A	497	10.916	-11.736	74.329	1.00	17.70
3797	CB	ALA	A	497	11.419	-10.515	73.644	1.00	16.88
3798	C	ALA	A	497	11.413	-13.033	73.672	1.00	17.98
3799	O	ALA	A	497	10.627	-13.765	73.046	1.00	19.18
3800	N	LEU	A	498	12.677	-13.371	73.902	1.00	16.78
3801	CA	LEU	A	498	13.238	-14.653	73.478	1.00	15.45
3802	CB	LEU	A	498	14.676	-14.736	73.948	1.00	14.72
3803	CG	LEU	A	498	15.604	-13.561	73.528	1.00	12.84
3804	CD1	LEU	A	498	17.062	-13.861	73.855	1.00	10.55
3805	CD2	LEU	A	498	15.495	-13.193	72.043	1.00	10.27
3806	C	LEU	A	498	12.517	-15.935	73.950	1.00	16.58
3807	O	LEU	A	498	12.968	-17.058	73.603	1.00	17.18
3808	N	LYS	A	499	11.442	-15.805	74.748	1.00	16.44
3809	CA	LYS	A	499	10.644	-16.965	75.164	1.00	16.44
3810	CB	LYS	A	499	9.548	-16.532	76.189	1.00	16.76
3811	CG	LYS	A	499	9.735	-17.025	77.687	1.00	18.25
3812	CD	LYS	A	499	8.421	-17.582	78.332	1.00	17.41
3813	CE	LYS	A	499	7.436	-16.442	78.792	1.00	18.35
3814	NZ	LYS	A	499	6.411	-16.865	79.851	1.00	13.03
3815	C	LYS	A	499	10.022	-17.627	73.904	1.00	16.05
3816	O	LYS	A	499	10.114	-18.847	73.687	1.00	15.43

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3817	N	ASN	A	500	9.359	-16.754	73.136	1.00	15.93
3818	CA	ASN	A	500	8.931	-16.904	71.730	1.00	16.45
3819	CB	ASN	A	500	9.010	-15.487	71.091	1.00	16.29
3820	CG	ASN	A	500	7.696	-14.675	71.151	1.00	17.32
3821	OD1	ASN	A	500	7.175	-14.327	72.224	1.00	17.47
3822	ND2	ASN	A	500	7.229	-14.269	69.966	1.00	18.04
3823	C	ASN	A	500	9.808	-17.745	70.785	1.00	16.51
3824	O	ASN	A	500	9.281	-18.429	69.882	1.00	16.58
3825	N	ILE	A	501	11.141	-17.626	70.969	1.00	16.28
3826	CA	ILE	A	501	12.138	-17.666	69.880	1.00	14.86
3827	CB	ILE	A	501	12.887	-16.351	69.868	1.00	14.29
3828	CG1	ILE	A	501	12.273	-15.466	68.807	1.00	14.54
3829	CD1	ILE	A	501	11.781	-14.189	69.349	1.00	16.15
3830	CG2	ILE	A	501	14.350	-16.501	69.484	1.00	12.16
3831	C	ILE	A	501	13.132	-18.835	69.896	1.00	15.72
3832	O	ILE	A	501	13.813	-19.071	70.882	1.00	16.21
3833	N	GLN	A	502	13.212	-19.578	68.799	1.00	16.04
3834	CA	GLN	A	502	14.058	-20.759	68.780	1.00	17.20
3835	CB	GLN	A	502	13.411	-22.031	68.090	1.00	17.89
3836	CG	GLN	A	502	12.520	-21.745	66.805	1.00	20.85
3837	CD	GLN	A	502	12.119	-22.991	65.930	1.00	23.80
3838	OE1	GLN	A	502	11.969	-22.835	64.695	1.00	24.79
3839	NE2	GLN	A	502	11.987	-24.187	66.544	1.00	17.89
3840	C	GLN	A	502	15.304	-20.268	68.128	1.00	17.07
3841	O	GLN	A	502	15.385	-20.223	66.894	1.00	17.73
3842	N	LEU	A	503	16.248	-19.852	68.979	1.00	16.78
3843	CA	LEU	A	503	17.573	-19.455	68.537	1.00	16.50
3844	CB	LEU	A	503	18.314	-18.603	69.567	1.00	16.65
3845	CG	LEU	A	503	17.621	-17.553	70.425	1.00	15.47
3846	CD1	LEU	A	503	18.214	-17.710	71.827	1.00	16.08
3847	CD2	LEU	A	503	17.731	-16.091	69.894	1.00	15.89
3848	C	LEU	A	503	18.418	-20.672	68.270	1.00	16.48
3849	O	LEU	A	503	18.042	-21.785	68.593	1.00	16.59
3850	N	PRO	A	504	19.535	-20.448	67.589	1.00	16.89
3851	CA	PRO	A	504	20.429	-21.537	67.181	1.00	16.86
3852	CB	PRO	A	504	21.160	-20.915	65.944	1.00	15.52
3853	CG	PRO	A	504	21.236	-19.593	66.217	1.00	14.77
3854	CD	PRO	A	504	20.007	-19.166	67.015	1.00	15.94
3855	C	PRO	A	504	21.414	-21.907	68.284	1.00	17.29
3856	O	PRO	A	504	21.610	-21.118	69.224	1.00	18.24
3857	N	LYS	A	505	22.015	-23.085	68.168	1.00	17.78
3858	CA	LYS	A	505	23.013	-23.515	69.122	1.00	18.36
3859	CB	LYS	A	505	23.070	-25.039	69.193	1.00	18.91
3860	CG	LYS	A	505	23.387	-25.632	70.626	1.00	22.57
3861	CD	LYS	A	505	24.902	-25.810	70.853	1.00	27.28
3862	CE	LYS	A	505	25.283	-26.353	72.317	1.00	31.84
3863	NZ	LYS	A	505	26.560	-25.759	72.942	1.00	30.25
3864	C	LYS	A	505	24.358	-22.923	68.669	1.00	18.40
3865	O	LYS	A	505	24.687	-22.924	67.475	1.00	18.15
3866	N	GLU	A	506	25.117	-22.413	69.632	1.00	18.31
3867	CA	GLU	A	506	26.448	-21.884	69.383	1.00	16.85

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3868	CB	GLU	A	506	26.548	-20.466	69.874	1.00	15.98
3869	CG	GLU	A	506	25.359	-19.615	69.461	1.00	16.42
3870	CD	GLU	A	506	25.724	-18.097	69.272	1.00	20.89
3871	OE1	GLU	A	506	24.813	-17.271	68.850	1.00	17.53
3872	OE2	GLU	A	506	26.898	-17.726	69.598	1.00	18.26
3873	C	GLU	A	506	27.409	-22.750	70.149	1.00	17.69
3874	O	GLU	A	506	27.020	-23.673	70.927	1.00	16.42
3875	N	GLU	A	507	28.685	-22.486	69.940	1.00	16.98
3876	CA	GLU	A	507	29.685	-23.499	70.268	1.00	16.31
3877	CB	GLU	A	507	29.345	-24.805	69.490	1.00	16.13
3878	CG	GLU	A	507	29.127	-26.079	70.337	1.00	17.79
3879	CD	GLU	A	507	28.563	-27.279	69.534	1.00	18.04
3880	OE1	GLU	A	507	28.891	-27.424	68.309	1.00	16.13
3881	OE2	GLU	A	507	27.794	-28.101	70.148	1.00	18.88
3882	C	GLU	A	507	31.051	-22.955	69.850	1.00	15.57
3883	O	GLU	A	507	31.325	-22.764	68.643	1.00	15.24
3884	N	ILE	A	508	31.930	-22.697	70.789	1.00	14.39
3885	CA	ILE	A	508	33.237	-22.360	70.340	1.00	14.18
3886	CB	ILE	A	508	33.642	-20.991	70.875	1.00	14.66
3887	CG1	ILE	A	508	34.900	-21.060	71.766	1.00	15.86
3888	CD1	ILE	A	508	35.619	-19.634	72.162	1.00	19.50
3889	CG2	ILE	A	508	32.390	-20.250	71.467	1.00	16.52
3890	C	ILE	A	508	34.240	-23.490	70.615	1.00	13.39
3891	O	ILE	A	508	34.397	-23.863	71.724	1.00	12.68
3892	N	LYS	A	509	34.894	-24.021	69.586	1.00	13.06
3893	CA	LYS	A	509	35.863	-25.081	69.745	1.00	13.17
3894	CB	LYS	A	509	35.312	-26.381	69.177	1.00	13.46
3895	CG	LYS	A	509	33.869	-26.747	69.596	1.00	16.07
3896	CD	LYS	A	509	33.592	-28.302	69.291	1.00	19.22
3897	CE	LYS	A	509	32.341	-28.870	69.940	1.00	18.09
3898	NZ	LYS	A	509	32.625	-29.755	71.154	1.00	21.00
3899	C	LYS	A	509	37.185	-24.740	69.077	1.00	12.40
3900	O	LYS	A	509	37.327	-23.681	68.530	1.00	10.80
3901	N	LYS	A	510	38.149	-25.660	69.165	1.00	13.25
3902	CA	LYS	A	510	39.456	-25.546	68.510	1.00	13.94
3903	CB	LYS	A	510	40.616	-25.405	69.583	1.00	13.37
3904	CG	LYS	A	510	40.962	-26.655	70.505	1.00	16.16
3905	CD	LYS	A	510	42.462	-26.788	71.062	1.00	14.97
3906	CE	LYS	A	510	43.271	-27.943	70.357	1.00	17.44
3907	NZ	LYS	A	510	43.097	-29.475	70.722	1.00	12.16
3908	C	LYS	A	510	39.710	-26.635	67.392	1.00	14.47
3909	O	LYS	A	510	39.100	-27.745	67.393	1.00	15.88
3910	N	LEU	A	511	40.625	-26.312	66.457	1.00	14.20
3911	CA	LEU	A	511	41.148	-27.239	65.429	1.00	14.43
3912	CB	LEU	A	511	40.837	-26.763	64.021	1.00	13.47
3913	CG	LEU	A	511	39.353	-26.787	63.796	1.00	11.98
3914	CD1	LEU	A	511	39.036	-25.800	62.758	1.00	12.61
3915	CD2	LEU	A	511	38.928	-28.165	63.447	1.00	10.30
3916	C	LEU	A	511	42.653	-27.383	65.502	1.00	16.18
3917	O	LEU	A	511	43.381	-26.426	65.749	1.00	16.64
3918	N	GLU	A	512	43.128	-28.595	65.259	1.00	17.73

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3919	CA	GLU	A	512	44.544	-28.832	65.355	1.00	19.35
3920	CB	GLU	A	512	44.819	-29.849	66.496	1.00	20.34
3921	CG	GLU	A	512	45.857	-29.458	67.596	1.00	23.22
3922	CD	GLU	A	512	46.260	-27.963	67.587	1.00	26.37
3923	OE1	GLU	A	512	46.809	-27.489	66.538	1.00	25.98
3924	OE2	GLU	A	512	46.037	-27.283	68.632	1.00	26.81
3925	C	GLU	A	512	45.030	-29.272	63.976	1.00	20.07
3926	O	GLU	A	512	44.812	-30.430	63.552	1.00	20.43
3927	N	VAL	A	513	45.635	-28.324	63.244	1.00	20.74
3928	CA	VAL	A	513	46.282	-28.665	61.957	1.00	21.36
3929	CB	VAL	A	513	45.472	-28.237	60.765	1.00	20.71
3930	CG1	VAL	A	513	45.500	-26.658	60.623	1.00	21.76
3931	CG2	VAL	A	513	44.050	-28.809	60.851	1.00	18.85
3932	C	VAL	A	513	47.709	-28.123	61.741	1.00	22.09
3933	O	VAL	A	513	47.924	-26.897	61.797	1.00	20.97
3934	N	ASP	A	514	48.652	-29.065	61.476	1.00	23.01
3935	CA	ASP	A	514	50.035	-28.739	61.046	1.00	23.37
3936	CB	ASP	A	514	50.078	-28.004	59.660	1.00	23.65
3937	CG	ASP	A	514	49.706	-28.905	58.444	1.00	23.18
3938	OD1	ASP	A	514	49.297	-28.325	57.397	1.00	23.65
3939	OD2	ASP	A	514	49.802	-30.164	58.423	1.00	23.82
3940	C	ASP	A	514	50.629	-27.823	62.135	1.00	23.31
3941	O	ASP	A	514	50.894	-26.630	61.885	1.00	23.03
3942	N	GLU	A	515	50.756	-28.380	63.347	1.00	22.76
3943	CA	GLU	A	515	51.181	-27.641	64.558	1.00	21.44
3944	CB	GLU	A	515	52.749	-27.668	64.695	1.00	21.92
3945	CG	GLU	A	515	53.380	-28.772	65.578	1.00	23.19
3946	CD	GLU	A	515	52.856	-28.837	67.045	1.00	25.65
3947	OE1	GLU	A	515	53.337	-29.733	67.860	1.00	21.81
3948	OE2	GLU	A	515	51.944	-28.015	67.376	1.00	26.69
3949	C	GLU	A	515	50.644	-26.164	64.718	1.00	19.62
3950	O	GLU	A	515	51.345	-25.293	65.219	1.00	19.22
3951	N	ILE	A	516	49.423	-25.855	64.336	1.00	17.25
3952	CA	ILE	A	516	48.915	-24.496	64.688	1.00	16.23
3953	CB	ILE	A	516	49.476	-23.357	63.726	1.00	15.48
3954	CG1	ILE	A	516	48.653	-22.054	63.854	1.00	15.50
3955	CD1	ILE	A	516	47.505	-21.904	62.916	1.00	4.33
3956	CG2	ILE	A	516	49.564	-23.804	62.296	1.00	15.93
3957	C	ILE	A	516	47.386	-24.466	64.848	1.00	14.78
3958	O	ILE	A	516	46.685	-25.037	64.024	1.00	14.47
3959	N	THR	A	517	46.899	-23.835	65.921	1.00	12.97
3960	CA	THR	A	517	45.560	-24.151	66.397	1.00	12.25
3961	CB	THR	A	517	45.554	-24.465	67.935	1.00	13.15
3962	OG1	THR	A	517	44.640	-23.614	68.644	1.00	14.53
3963	CG2	THR	A	517	46.975	-24.264	68.629	1.00	12.04
3964	C	THR	A	517	44.516	-23.076	65.985	1.00	11.66
3965	O	THR	A	517	44.875	-21.884	65.798	1.00	10.98
3966	N	LEU	A	518	43.246	-23.526	65.836	1.00	10.07
3967	CA	LEU	A	518	42.177	-22.747	65.147	1.00	10.34
3968	CB	LEU	A	518	41.930	-23.289	63.744	1.00	8.91
3969	CG	LEU	A	518	42.526	-22.494	62.588	1.00	10.53

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
3970	CD1	LEU	A	518	43.932	-22.015	62.766	1.00	10.26
3971	CD2	LEU	A	518	42.480	-23.328	61.330	1.00	7.80
3972	C	LEU	A	518	40.838	-22.653	65.902	1.00	9.91
3973	O	LEU	A	518	40.041	-23.592	65.981	1.00	8.87
3974	N	TRP	A	519	40.598	-21.448	66.425	1.00	9.64
3975	CA	TRP	A	519	39.464	-21.249	67.322	1.00	8.99
3976	CB	TRP	A	519	39.778	-20.188	68.397	1.00	7.64
3977	CG	TRP	A	519	40.474	-20.825	69.591	1.00	8.74
3978	CD1	TRP	A	519	41.770	-20.788	69.835	1.00	5.39
3979	NE1	TRP	A	519	42.060	-21.456	70.979	1.00	4.02
3980	CE2	TRP	A	519	40.910	-21.954	71.500	1.00	5.21
3981	CD2	TRP	A	519	39.886	-21.557	70.664	1.00	2.85
3982	CE3	TRP	A	519	38.591	-21.914	70.995	1.00	3.39
3983	CZ3	TRP	A	519	38.374	-22.658	72.102	1.00	2.00
3984	CH2	TRP	A	519	39.427	-23.033	72.939	1.00	2.00
3985	CZ2	TRP	A	519	40.701	-22.690	72.651	1.00	2.00
3986	C	TRP	A	519	38.309	-20.869	66.450	1.00	8.88
3987	O	TRP	A	519	38.502	-20.087	65.523	1.00	9.79
3988	N	TYR	A	520	37.139	-21.454	66.690	1.00	8.94
3989	CA	TYR	A	520	35.945	-21.036	65.945	1.00	9.77
3990	CB	TYR	A	520	35.758	-21.926	64.686	1.00	9.97
3991	CG	TYR	A	520	35.428	-23.354	64.976	1.00	9.56
3992	CD1	TYR	A	520	34.132	-23.842	64.841	1.00	4.58
3993	CE1	TYR	A	520	33.856	-25.191	65.147	1.00	4.25
3994	CZ	TYR	A	520	34.878	-26.051	65.601	1.00	4.10
3995	OH	TYR	A	520	34.670	-27.379	65.939	1.00	6.24
3996	CE2	TYR	A	520	36.152	-25.590	65.710	1.00	6.09
3997	CD2	TYR	A	520	36.426	-24.220	65.414	1.00	7.25
3998	C	TYR	A	520	34.671	-20.968	66.764	1.00	10.00
3999	O	TYR	A	520	34.641	-21.362	67.919	1.00	10.70
4000	N	LYS	A	521	33.621	-20.411	66.189	1.00	10.73
4001	CA	LYS	A	521	32.297	-20.461	66.788	1.00	10.75
4002	CB	LYS	A	521	31.859	-19.103	67.325	1.00	10.99
4003	CG	LYS	A	521	30.534	-18.502	66.899	1.00	9.66
4004	CD	LYS	A	521	29.796	-17.960	68.083	1.00	13.15
4005	CE	LYS	A	521	30.406	-16.653	68.623	1.00	13.91
4006	NZ	LYS	A	521	29.682	-16.202	69.861	1.00	14.60
4007	C	LYS	A	521	31.473	-20.884	65.688	1.00	12.26
4008	O	LYS	A	521	31.689	-20.457	64.541	1.00	13.60
4009	N	MET	A	522	30.479	-21.703	65.982	1.00	12.85
4010	CA	MET	A	522	29.775	-22.365	64.883	1.00	12.31
4011	CB	MET	A	522	30.424	-23.743	64.574	1.00	12.13
4012	CG	MET	A	522	29.423	-24.935	64.420	1.00	14.92
4013	SD	MET	A	522	29.535	-26.004	62.954	1.00	17.58
4014	CE	MET	A	522	31.287	-25.737	62.268	1.00	13.56
4015	C	MET	A	522	28.305	-22.450	65.211	1.00	10.97
4016	O	MET	A	522	27.904	-22.978	66.253	1.00	11.56
4017	N	ILE	A	523	27.477	-21.973	64.301	1.00	9.78
4018	CA	ILE	A	523	26.093	-21.696	64.671	1.00	8.45
4019	CB	ILE	A	523	25.758	-20.270	64.231	1.00	6.62
4020	CG1	ILE	A	523	26.864	-19.307	64.702	1.00	5.63

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4021	CD1	ILE	A	523	26.481	-17.642	64.803	1.00	3.96
4022	CG2	ILE	A	523	24.507	-19.820	64.858	1.00	5.91
4023	C	ILE	A	523	25.155	-22.781	64.111	1.00	8.15
4024	O	ILE	A	523	25.053	-22.911	62.902	1.00	9.20
4025	N	LEU	A	524	24.491	-23.558	64.940	1.00	5.92
4026	CA	LEU	A	524	23.725	-24.615	64.348	1.00	6.86
4027	CB	LEU	A	524	23.995	-25.975	65.041	1.00	6.74
4028	CG	LEU	A	524	25.505	-26.247	65.050	1.00	5.91
4029	CD1	LEU	A	524	25.929	-26.882	66.368	1.00	5.20
4030	CD2	LEU	A	524	26.007	-27.040	63.830	1.00	2.57
4031	C	LEU	A	524	22.251	-24.250	64.337	1.00	7.99
4032	O	LEU	A	524	21.747	-23.738	65.315	1.00	8.37
4033	N	PRO	A	525	21.556	-24.463	63.232	1.00	9.29
4034	CA	PRO	A	525	20.098	-24.411	63.234	1.00	10.98
4035	CB	PRO	A	525	19.698	-24.889	61.815	1.00	10.67
4036	CG	PRO	A	525	20.885	-24.710	60.998	1.00	9.58
4037	CD	PRO	A	525	22.086	-24.678	61.879	1.00	9.64
4038	C	PRO	A	525	19.434	-25.346	64.243	1.00	13.25
4039	O	PRO	A	525	19.903	-26.460	64.585	1.00	12.72
4040	N	PRO	A	526	18.281	-24.857	64.686	1.00	14.80
4041	CA	PRO	A	526	17.464	-25.556	65.670	1.00	15.52
4042	CB	PRO	A	526	16.391	-24.526	65.992	1.00	15.36
4043	CG	PRO	A	526	16.250	-23.753	64.718	1.00	14.51
4044	CD	PRO	A	526	17.668	-23.580	64.258	1.00	14.31
4045	C	PRO	A	526	16.920	-26.842	65.037	1.00	16.69
4046	O	PRO	A	526	16.784	-26.933	63.812	1.00	17.17
4047	N	GLN	A	527	16.618	-27.811	65.885	1.00	18.22
4048	CA	GLN	A	527	16.790	-29.260	65.544	1.00	20.10
4049	CB	GLN	A	527	15.493	-30.193	65.688	1.00	20.08
4050	CG	GLN	A	527	14.279	-29.974	64.689	1.00	23.59
4051	CD	GLN	A	527	13.379	-28.735	65.015	1.00	26.75
4052	OE1	GLN	A	527	12.730	-28.164	64.117	1.00	27.12
4053	NE2	GLN	A	527	13.348	-28.334	66.290	1.00	27.37
4054	C	GLN	A	527	17.664	-29.518	64.279	1.00	19.57
4055	O	GLN	A	527	17.207	-30.029	63.268	1.00	19.22
4056	N	PHE	A	528	18.933	-29.136	64.409	1.00	19.30
4057	CA	PHE	A	528	20.072	-29.708	63.665	1.00	19.63
4058	CB	PHE	A	528	21.296	-29.182	64.352	1.00	19.59
4059	CG	PHE	A	528	22.594	-29.591	63.751	1.00	21.04
4060	CD1	PHE	A	528	22.883	-29.324	62.404	1.00	19.63
4061	CE1	PHE	A	528	24.127	-29.660	61.857	1.00	18.95
4062	CZ	PHE	A	528	25.110	-30.213	62.671	1.00	20.79
4063	CE2	PHE	A	528	24.855	-30.454	64.051	1.00	21.34
4064	CD2	PHE	A	528	23.604	-30.135	64.582	1.00	21.45
4065	C	PHE	A	528	20.124	-31.243	63.711	1.00	20.09
4066	O	PHE	A	528	20.079	-31.848	64.790	1.00	19.88
4067	N	ASP	A	529	20.191	-31.883	62.548	1.00	20.15
4068	CA	ASP	A	529	20.392	-33.342	62.460	1.00	20.15
4069	CB	ASP	A	529	19.267	-34.072	61.680	1.00	19.53
4070	CG	ASP	A	529	19.502	-35.625	61.582	1.00	20.33
4071	OD1	ASP	A	529	18.812	-36.341	60.772	1.00	19.80

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4072	OD2	ASP	A	529	20.384	-36.202	62.279	1.00	19.04
4073	C	ASP	A	529	21.735	-33.530	61.770	1.00	20.69
4074	O	ASP	A	529	21.791	-33.703	60.550	1.00	21.24
4075	N	ARG	A	530	22.807	-33.393	62.553	1.00	20.89
4076	CA	ARG	A	530	24.141	-34.006	62.291	1.00	21.20
4077	CB	ARG	A	530	24.692	-34.558	63.655	1.00	21.63
4078	CG	ARG	A	530	25.774	-35.677	63.652	1.00	25.10
4079	CD	ARG	A	530	26.684	-35.737	64.931	1.00	28.33
4080	NE	ARG	A	530	28.101	-35.630	64.526	1.00	30.23
4081	CZ	ARG	A	530	28.882	-34.530	64.542	1.00	30.48
4082	NH1	ARG	A	530	28.470	-33.339	64.997	1.00	30.55
4083	NH2	ARG	A	530	30.119	-34.641	64.095	1.00	28.18
4084	C	ARG	A	530	24.225	-35.055	61.132	1.00	20.09
4085	O	ARG	A	530	25.192	-35.014	60.357	1.00	20.72
4086	N	SER	A	531	23.224	-35.938	61.000	1.00	18.26
4087	CA	SER	A	531	23.165	-36.968	59.910	1.00	17.11
4088	CB	SER	A	531	22.062	-37.985	60.232	1.00	16.91
4089	OG	SER	A	531	20.796	-37.508	59.728	1.00	17.34
4090	C	SER	A	531	22.902	-36.476	58.445	1.00	16.02
4091	O	SER	A	531	22.852	-37.273	57.499	1.00	15.34
4092	N	LYS	A	532	22.687	-35.178	58.294	1.00	14.66
4093	CA	LYS	A	532	22.169	-34.597	57.072	1.00	13.98
4094	CB	LYS	A	532	20.704	-34.172	57.275	1.00	14.32
4095	CG	LYS	A	532	19.594	-35.280	57.207	1.00	15.19
4096	CD	LYS	A	532	18.216	-34.774	57.808	1.00	16.43
4097	CE	LYS	A	532	17.867	-33.203	57.449	1.00	18.07
4098	NZ	LYS	A	532	17.139	-32.993	56.146	1.00	15.15
4099	C	LYS	A	532	23.070	-33.375	56.775	1.00	13.10
4100	O	LYS	A	532	24.048	-33.134	57.513	1.00	13.51
4101	N	LYS	A	533	22.756	-32.596	55.730	1.00	11.19
4102	CA	LYS	A	533	23.758	-31.756	55.133	1.00	9.95
4103	CB	LYS	A	533	24.352	-32.433	53.872	1.00	9.26
4104	CG	LYS	A	533	25.724	-33.171	54.162	1.00	10.39
4105	CD	LYS	A	533	26.594	-33.553	52.916	1.00	10.98
4106	CE	LYS	A	533	27.166	-35.062	52.975	1.00	14.00
4107	NZ	LYS	A	533	28.548	-35.188	53.559	1.00	12.38
4108	C	LYS	A	533	23.280	-30.294	54.941	1.00	10.05
4109	O	LYS	A	533	22.103	-30.024	54.682	1.00	11.05
4110	N	TYR	A	534	24.209	-29.364	55.122	1.00	8.50
4111	CA	TYR	A	534	23.844	-27.990	55.410	1.00	8.03
4112	CB	TYR	A	534	23.747	-27.671	56.948	1.00	7.29
4113	CG	TYR	A	534	22.775	-28.445	57.796	1.00	7.67
4114	CD1	TYR	A	534	21.624	-27.861	58.353	1.00	5.27
4115	CE1	TYR	A	534	20.739	-28.595	59.129	1.00	4.76
4116	CZ	TYR	A	534	21.027	-29.964	59.376	1.00	10.56
4117	OH	TYR	A	534	20.287	-30.821	60.154	1.00	10.84
4118	CE2	TYR	A	534	22.167	-30.561	58.868	1.00	10.44
4119	CD2	TYR	A	534	23.037	-29.780	58.076	1.00	11.14
4120	C	TYR	A	534	24.854	-26.988	54.740	1.00	7.96
4121	O	TYR	A	534	26.105	-27.095	54.841	1.00	7.16
4122	N	PRO	A	535	24.276	-26.021	54.050	1.00	8.15

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4123	CA	PRO	A	535	25.087	-24.985	53.458	1.00	8.44
4124	CB	PRO	A	535	24.063	-24.090	52.755	1.00	8.32
4125	CG	PRO	A	535	22.730	-24.452	53.311	1.00	7.30
4126	CD	PRO	A	535	22.828	-25.818	53.822	1.00	7.98
4127	C	PRO	A	535	25.820	-24.315	54.607	1.00	8.76
4128	O	PRO	A	535	25.402	-24.418	55.762	1.00	9.01
4129	N	LEU	A	536	26.961	-23.755	54.329	1.00	8.85
4130	CA	LEU	A	536	27.751	-23.284	55.396	1.00	10.23
4131	CB	LEU	A	536	28.915	-24.212	55.595	1.00	9.65
4132	CG	LEU	A	536	29.987	-23.427	56.368	1.00	13.03
4133	CD1	LEU	A	536	29.574	-23.374	57.857	1.00	14.75
4134	CD2	LEU	A	536	31.462	-23.927	56.180	1.00	12.80
4135	C	LEU	A	536	28.213	-21.885	54.971	1.00	11.58
4136	O	LEU	A	536	28.901	-21.745	53.948	1.00	12.89
4137	N	LEU	A	537	27.754	-20.858	55.699	1.00	12.01
4138	CA	LEU	A	537	28.236	-19.522	55.587	1.00	11.92
4139	CB	LEU	A	537	27.156	-18.524	55.985	1.00	11.67
4140	CG	LEU	A	537	27.699	-17.086	55.922	1.00	12.15
4141	CD1	LEU	A	537	28.177	-16.748	54.545	1.00	10.48
4142	CD2	LEU	A	537	26.607	-16.138	56.299	1.00	11.65
4143	C	LEU	A	537	29.392	-19.428	56.543	1.00	12.68
4144	O	LEU	A	537	29.313	-19.982	57.635	1.00	13.55
4145	N	ILE	A	538	30.474	-18.811	56.095	1.00	12.03
4146	CA	ILE	A	538	31.584	-18.463	56.912	1.00	11.40
4147	CB	ILE	A	538	32.880	-18.808	56.196	1.00	11.19
4148	CG1	ILE	A	538	33.103	-20.328	56.029	1.00	10.47
4149	CD1	ILE	A	538	33.284	-21.191	57.365	1.00	6.46
4150	CG2	ILE	A	538	34.138	-18.257	56.991	1.00	10.45
4151	C	ILE	A	538	31.526	-16.954	57.044	1.00	12.09
4152	O	ILE	A	538	31.613	-16.289	56.072	1.00	12.11
4153	N	GLN	A	539	31.340	-16.381	58.225	1.00	12.79
4154	CA	GLN	A	539	31.541	-14.925	58.398	1.00	13.15
4155	CB	GLN	A	539	30.623	-14.363	59.450	1.00	13.29
4156	CG	GLN	A	539	30.805	-12.937	59.659	1.00	11.49
4157	CD	GLN	A	539	29.805	-12.314	60.585	1.00	12.96
4158	OE1	GLN	A	539	30.186	-11.874	61.706	1.00	9.92
4159	NE2	GLN	A	539	28.522	-12.221	60.141	1.00	15.50
4160	C	GLN	A	539	33.007	-14.709	58.813	1.00	13.96
4161	O	GLN	A	539	33.470	-15.218	59.814	1.00	14.57
4162	N	VAL	A	540	33.748	-13.981	58.001	1.00	13.99
4163	CA	VAL	A	540	35.158	-13.702	58.264	1.00	12.97
4164	CB	VAL	A	540	36.069	-14.224	57.162	1.00	12.76
4165	CG1	VAL	A	540	35.652	-13.656	55.795	1.00	9.30
4166	CG2	VAL	A	540	37.587	-13.910	57.511	1.00	8.79
4167	C	VAL	A	540	35.406	-12.218	58.387	1.00	13.59
4168	O	VAL	A	540	34.628	-11.370	57.868	1.00	11.02
4169	N	TYR	A	541	36.432	-11.937	59.194	1.00	14.18
4170	CA	TYR	A	541	37.035	-10.611	59.363	1.00	15.10
4171	CB	TYR	A	541	36.692	-9.952	60.730	1.00	14.36
4172	CG	TYR	A	541	37.218	-8.512	60.833	1.00	17.60
4173	CD1	TYR	A	541	36.622	-7.489	60.113	1.00	17.43

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4174	CE1	TYR	A	541	37.104	-6.219	60.170	1.00	16.06
4175	CZ	TYR	A	541	38.187	-5.945	60.941	1.00	15.42
4176	OH	TYR	A	541	38.565	-4.702	60.936	1.00	15.23
4177	CE2	TYR	A	541	38.793	-6.882	61.689	1.00	15.11
4178	CD2	TYR	A	541	38.329	-8.183	61.629	1.00	16.74
4179	C	TYR	A	541	38.545	-10.874	59.155	1.00	15.43
4180	O	TYR	A	541	39.040	-10.783	58.040	1.00	15.14
4181	N	GLY	A	542	39.291	-11.270	60.175	1.00	14.32
4182	CA	GLY	A	542	40.667	-11.645	59.925	1.00	15.44
4183	C	GLY	A	542	41.739	-10.599	60.079	1.00	15.74
4184	O	GLY	A	542	42.945	-10.959	60.034	1.00	17.53
4185	N	GLY	A	543	41.329	-9.351	60.339	1.00	14.18
4186	CA	GLY	A	543	42.283	-8.280	60.621	1.00	15.06
4187	C	GLY	A	543	43.260	-8.441	61.787	1.00	15.07
4188	O	GLY	A	543	42.878	-8.654	62.935	1.00	15.53
4189	N	PRO	A	544	44.533	-8.207	61.514	1.00	15.13
4190	CA	PRO	A	544	45.558	-8.347	62.519	1.00	14.17
4191	CB	PRO	A	544	46.742	-7.571	61.905	1.00	12.90
4192	CG	PRO	A	544	46.244	-6.798	60.846	1.00	14.71
4193	CD	PRO	A	544	45.106	-7.605	60.295	1.00	15.50
4194	C	PRO	A	544	45.136	-7.669	63.809	1.00	13.88
4195	O	PRO	A	544	44.800	-6.466	63.734	1.00	13.96
4196	N	CYS	A	545	45.184	-8.410	64.933	1.00	13.83
4197	CA	CYS	A	545	44.907	-7.922	66.299	1.00	14.52
4198	CB	CYS	A	545	45.346	-6.478	66.513	1.00	13.79
4199	SG	CYS	A	545	47.051	-6.212	65.999	1.00	17.65
4200	C	CYS	A	545	43.445	-8.010	66.626	1.00	15.26
4201	O	CYS	A	545	43.061	-7.677	67.714	1.00	17.26
4202	N	SER	A	546	42.622	-8.442	65.674	1.00	14.43
4203	CA	SER	A	546	41.197	-8.627	65.882	1.00	14.02
4204	CB	SER	A	546	40.490	-8.663	64.504	1.00	13.96
4205	OG	SER	A	546	40.632	-9.924	63.851	1.00	14.48
4206	C	SER	A	546	40.965	-9.946	66.575	1.00	13.43
4207	O	SER	A	546	41.902	-10.694	66.740	1.00	11.89
4208	N	GLN	A	547	39.706	-10.238	66.916	1.00	13.91
4209	CA	GLN	A	547	39.310	-11.648	67.068	1.00	14.36
4210	CB	GLN	A	547	39.836	-12.293	68.371	1.00	13.97
4211	CG	GLN	A	547	38.966	-12.096	69.595	1.00	14.91
4212	CD	GLN	A	547	39.289	-13.051	70.753	1.00	19.67
4213	OE1	GLN	A	547	39.223	-12.662	71.916	1.00	12.98
4214	NE2	GLN	A	547	39.580	-14.323	70.432	1.00	22.95
4215	C	GLN	A	547	37.800	-11.801	66.988	1.00	14.36
4216	O	GLN	A	547	37.086	-11.091	67.684	1.00	15.77
4217	N	SER	A	548	37.341	-12.732	66.162	1.00	13.36
4218	CA	SER	A	548	35.938	-12.914	65.872	1.00	14.31
4219	CB	SER	A	548	35.822	-13.212	64.381	1.00	13.86
4220	OG	SER	A	548	36.282	-12.104	63.619	1.00	16.42
4221	C	SER	A	548	35.263	-14.038	66.678	1.00	14.79
4222	O	SER	A	548	34.003	-14.071	66.829	1.00	16.14
4223	N	VAL	A	549	36.079	-14.928	67.240	1.00	13.16
4224	CA	VAL	A	549	35.569	-15.924	68.136	1.00	13.86

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4225	CB	VAL	A	549	36.366	-17.203	68.076	1.00	13.16
4226	CG1	VAL	A	549	35.617	-18.262	68.761	1.00	10.93
4227	CG2	VAL	A	549	36.603	-17.593	66.591	1.00	14.95
4228	C	VAL	A	549	35.408	-15.390	69.578	1.00	14.68
4229	O	VAL	A	549	36.367	-15.193	70.317	1.00	15.11
4230	N	ARG	A	550	34.163	-15.090	69.935	1.00	14.86
4231	CA	ARG	A	550	33.883	-14.437	71.205	1.00	15.08
4232	CB	ARG	A	550	33.878	-12.882	71.090	1.00	15.08
4233	CG	ARG	A	550	35.238	-12.257	70.931	1.00	16.73
4234	CD	ARG	A	550	35.225	-10.736	70.460	1.00	21.61
4235	NE	ARG	A	550	36.585	-10.110	70.447	1.00	23.62
4236	CZ	ARG	A	550	36.815	-8.771	70.519	1.00	26.38
4237	NH1	ARG	A	550	35.784	-7.939	70.656	1.00	26.59
4238	NH2	ARG	A	550	38.066	-8.249	70.463	1.00	22.17
4239	C	ARG	A	550	32.561	-14.984	71.767	1.00	15.01
4240	O	ARG	A	550	31.704	-15.464	71.050	1.00	14.95
4241	N	SER	A	551	32.426	-14.804	73.073	1.00	15.49
4242	CA	SER	A	551	31.651	-15.594	73.994	1.00	15.06
4243	CB	SER	A	551	32.635	-15.945	75.111	1.00	17.05
4244	OG	SER	A	551	33.896	-15.292	74.731	1.00	18.91
4245	C	SER	A	551	30.599	-14.640	74.436	1.00	13.72
4246	O	SER	A	551	30.265	-14.492	75.580	1.00	13.47
4247	N	VAL	A	552	30.064	-14.001	73.412	1.00	13.06
4248	CA	VAL	A	552	29.438	-12.687	73.486	1.00	10.40
4249	CB	VAL	A	552	30.123	-11.669	72.630	1.00	9.26
4250	CG1	VAL	A	552	29.215	-10.498	72.412	1.00	7.24
4251	CG2	VAL	A	552	31.271	-11.237	73.305	1.00	7.29
4252	C	VAL	A	552	28.182	-12.866	72.845	1.00	9.58
4253	O	VAL	A	552	28.149	-13.287	71.733	1.00	9.33
4254	N	PHE	A	553	27.166	-12.418	73.528	1.00	10.34
4255	CA	PHE	A	553	25.809	-12.545	73.104	1.00	10.81
4256	CB	PHE	A	553	24.868	-12.112	74.237	1.00	10.50
4257	CG	PHE	A	553	23.445	-12.357	73.944	1.00	8.39
4258	CD1	PHE	A	553	22.919	-13.616	74.108	1.00	4.29
4259	CE1	PHE	A	553	21.598	-13.855	73.827	1.00	6.02
4260	CZ	PHE	A	553	20.763	-12.796	73.384	1.00	5.88
4261	CE2	PHE	A	553	21.271	-11.533	73.256	1.00	5.23
4262	CD2	PHE	A	553	22.621	-11.315	73.490	1.00	6.95
4263	C	PHE	A	553	25.569	-11.686	71.926	1.00	11.10
4264	O	PHE	A	553	25.845	-10.505	71.956	1.00	11.09
4265	N	ALA	A	554	24.975	-12.260	70.889	1.00	12.62
4266	CA	ALA	A	554	24.572	-11.409	69.731	1.00	13.09
4267	CB	ALA	A	554	25.767	-11.230	68.795	1.00	12.80
4268	C	ALA	A	554	23.343	-12.001	69.010	1.00	14.30
4269	O	ALA	A	554	23.320	-13.227	68.534	1.00	14.84
4270	N	VAL	A	555	22.257	-11.231	69.032	1.00	13.09
4271	CA	VAL	A	555	21.237	-11.589	68.071	1.00	13.15
4272	CB	VAL	A	555	19.825	-11.415	68.521	1.00	12.99
4273	CG1	VAL	A	555	18.962	-12.215	67.601	1.00	11.44
4274	CG2	VAL	A	555	19.654	-11.895	69.885	1.00	11.57
4275	C	VAL	A	555	21.519	-10.767	66.802	1.00	13.45

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4276	O	VAL	A	555	21.189	-9.582	66.783	1.00	13.37
4277	N	ASN	A	556	22.139	-11.416	65.806	1.00	13.15
4278	CA	ASN	A	556	22.492	-10.783	64.609	1.00	14.79
4279	CB	ASN	A	556	23.930	-10.296	64.681	1.00	15.48
4280	CG	ASN	A	556	24.996	-11.423	64.873	1.00	18.36
4281	OD1	ASN	A	556	26.159	-11.060	65.196	1.00	22.85
4282	ND2	ASN	A	556	24.648	-12.745	64.678	1.00	12.68
4283	C	ASN	A	556	22.179	-11.545	63.338	1.00	16.10
4284	O	ASN	A	556	21.601	-12.636	63.375	1.00	15.64
4285	N	TRP	A	557	22.471	-10.978	62.161	1.00	18.06
4286	CA	TRP	A	557	22.108	-11.572	60.879	1.00	21.05
4287	CB	TRP	A	557	22.944	-10.963	59.751	1.00	24.24
4288	CG	TRP	A	557	24.259	-10.410	60.210	1.00	38.16
4289	CD1	TRP	A	557	25.466	-11.048	60.197	1.00	44.60
4290	NE1	TRP	A	557	26.444	-10.223	60.696	1.00	44.47
4291	CE2	TRP	A	557	25.872	-9.021	61.042	1.00	46.39
4292	CD2	TRP	A	557	24.497	-9.105	60.750	1.00	46.46
4293	CE3	TRP	A	557	23.681	-8.001	61.013	1.00	48.93
4294	CZ3	TRP	A	557	24.256	-6.866	61.553	1.00	52.17
4295	CH2	TRP	A	557	25.632	-6.808	61.835	1.00	51.75
4296	CZ2	TRP	A	557	26.453	-7.877	61.587	1.00	47.27
4297	C	TRP	A	557	22.284	-13.086	60.904	1.00	19.83
4298	O	TRP	A	557	21.393	-13.854	60.557	1.00	18.53
4299	N	ILE	A	558	23.516	-13.532	61.102	1.00	19.06
4300	CA	ILE	A	558	23.837	-14.935	60.971	1.00	18.60
4301	CB	ILE	A	558	25.358	-15.217	61.111	1.00	19.25
4302	CG1	ILE	A	558	25.910	-14.584	62.402	1.00	17.80
4303	CD1	ILE	A	558	27.310	-15.032	62.697	1.00	20.13
4304	CG2	ILE	A	558	26.137	-14.685	59.852	1.00	18.70
4305	C	ILE	A	558	23.039	-15.741	61.958	1.00	17.74
4306	O	ILE	A	558	22.720	-16.938	61.672	1.00	18.05
4307	N	SER	A	559	22.693	-15.108	63.088	1.00	15.85
4308	CA	SER	A	559	21.664	-15.705	63.933	1.00	15.56
4309	CB	SER	A	559	21.373	-14.894	65.193	1.00	15.45
4310	OG	SER	A	559	22.547	-14.427	65.842	1.00	15.99
4311	C	SER	A	559	20.368	-15.996	63.111	1.00	14.77
4312	O	SER	A	559	19.871	-17.128	63.121	1.00	14.62
4313	N	TYR	A	560	19.867	-14.986	62.400	1.00	13.67
4314	CA	TYR	A	560	18.673	-15.114	61.562	1.00	13.20
4315	CB	TYR	A	560	18.288	-13.800	60.792	1.00	12.55
4316	CG	TYR	A	560	17.586	-14.042	59.440	1.00	12.59
4317	CD1	TYR	A	560	16.461	-14.853	59.376	1.00	13.62
4318	CE1	TYR	A	560	15.824	-15.112	58.202	1.00	15.44
4319	CZ	TYR	A	560	16.285	-14.598	57.018	1.00	15.99
4320	OH	TYR	A	560	15.557	-14.989	55.896	1.00	16.12
4321	CE2	TYR	A	560	17.384	-13.729	57.026	1.00	12.91
4322	CD2	TYR	A	560	18.039	-13.476	58.251	1.00	13.64
4323	C	TYR	A	560	18.837	-16.217	60.577	1.00	13.07
4324	O	TYR	A	560	17.863	-16.796	60.163	1.00	14.25
4325	N	LEU	A	561	20.046	-16.500	60.143	1.00	12.29
4326	CA	LEU	A	561	20.176	-17.361	58.992	1.00	11.38

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4327	CB	LEU	A	561	21.491	-17.136	58.222	1.00	11.22
4328	CG	LEU	A	561	21.469	-15.740	57.595	1.00	8.15
4329	CD1	LEU	A	561	22.830	-15.366	57.066	1.00	2.00
4330	CD2	LEU	A	561	20.361	-15.689	56.509	1.00	6.38
4331	C	LEU	A	561	20.119	-18.736	59.458	1.00	11.61
4332	O	LEU	A	561	19.630	-19.630	58.739	1.00	11.12
4333	N	ALA	A	562	20.641	-18.950	60.646	1.00	11.54
4334	CA	ALA	A	562	20.762	-20.332	61.034	1.00	13.14
4335	CB	ALA	A	562	21.814	-20.509	62.065	1.00	13.69
4336	C	ALA	A	562	19.385	-20.737	61.508	1.00	13.10
4337	O	ALA	A	562	18.886	-21.835	61.177	1.00	11.98
4338	N	SER	A	563	18.752	-19.740	62.147	1.00	12.99
4339	CA	SER	A	563	17.470	-19.917	62.803	1.00	13.21
4340	CB	SER	A	563	17.067	-18.637	63.551	1.00	12.53
4341	OG	SER	A	563	15.775	-18.764	64.161	1.00	13.80
4342	C	SER	A	563	16.414	-20.245	61.794	1.00	13.32
4343	O	SER	A	563	15.675	-21.203	61.949	1.00	12.95
4344	N	LYS	A	564	16.310	-19.420	60.766	1.00	13.24
4345	CA	LYS	A	564	15.189	-19.575	59.821	1.00	14.40
4346	CB	LYS	A	564	14.504	-18.239	59.492	1.00	12.96
4347	CG	LYS	A	564	13.546	-18.269	58.290	1.00	13.94
4348	CD	LYS	A	564	11.991	-17.922	58.607	1.00	17.28
4349	CE	LYS	A	564	11.468	-16.438	58.217	1.00	18.24
4350	NZ	LYS	A	564	12.269	-15.512	57.258	1.00	19.11
4351	C	LYS	A	564	15.627	-20.284	58.530	1.00	14.87
4352	O	LYS	A	564	14.904	-21.129	58.008	1.00	14.55
4353	N	GLU	A	565	16.801	-19.910	58.026	1.00	14.30
4354	CA	GLU	A	565	17.165	-20.244	56.677	1.00	14.07
4355	CB	GLU	A	565	17.912	-19.045	56.002	1.00	13.68
4356	CG	GLU	A	565	17.062	-18.012	55.208	1.00	14.19
4357	CD	GLU	A	565	15.566	-18.377	54.974	1.00	20.62
4358	OE1	GLU	A	565	14.663	-17.468	55.138	1.00	22.89
4359	OE2	GLU	A	565	15.268	-19.555	54.606	1.00	20.29
4360	C	GLU	A	565	17.950	-21.557	56.500	1.00	14.02
4361	O	GLU	A	565	18.256	-21.866	55.356	1.00	15.56
4362	N	GLY	A	566	18.289	-22.319	57.546	1.00	12.86
4363	CA	GLY	A	566	18.968	-23.584	57.319	1.00	11.89
4364	C	GLY	A	566	20.500	-23.532	57.274	1.00	12.25
4365	O	GLY	A	566	21.158	-24.616	57.287	1.00	12.19
4366	N	MET	A	567	21.102	-22.327	57.263	1.00	11.49
4367	CA	MET	A	567	22.583	-22.263	57.184	1.00	11.28
4368	CB	MET	A	567	23.076	-20.979	56.613	1.00	11.04
4369	CG	MET	A	567	22.461	-20.617	55.308	1.00	11.92
4370	SD	MET	A	567	22.634	-18.863	55.042	1.00	18.77
4371	CE	MET	A	567	21.283	-18.760	53.861	1.00	17.29
4372	C	MET	A	567	23.380	-22.457	58.463	1.00	11.00
4373	O	MET	A	567	23.122	-21.821	59.442	1.00	10.72
4374	N	VAL	A	568	24.322	-23.387	58.416	1.00	10.41
4375	CA	VAL	A	568	25.395	-23.487	59.376	1.00	9.51
4376	CB	VAL	A	568	26.154	-24.799	59.199	1.00	9.63
4377	CG1	VAL	A	568	27.388	-24.873	60.159	1.00	8.42

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4378	CG2	VAL	A	568	25.226	-25.947	59.482	1.00	11.47
4379	C	VAL	A	568	26.370	-22.458	59.094	1.00	8.66
4380	O	VAL	A	568	26.722	-22.328	57.984	1.00	8.86
4381	N	ILE	A	569	26.867	-21.795	60.122	1.00	9.17
4382	CA	ILE	A	569	27.708	-20.582	60.032	1.00	8.92
4383	CB	ILE	A	569	26.957	-19.407	60.675	1.00	8.87
4384	CG1	ILE	A	569	25.429	-19.462	60.360	1.00	9.45
4385	CD1	ILE	A	569	25.035	-19.356	58.896	1.00	3.36
4386	CG2	ILE	A	569	27.498	-18.146	60.269	1.00	4.34
4387	C	ILE	A	569	28.958	-20.773	60.851	1.00	10.44
4388	O	ILE	A	569	28.946	-21.534	61.820	1.00	10.60
4389	N	ALA	A	570	30.050	-20.098	60.499	1.00	10.46
4390	CA	ALA	A	570	31.292	-20.272	61.269	1.00	10.96
4391	CB	ALA	A	570	32.008	-21.464	60.850	1.00	9.62
4392	C	ALA	A	570	32.218	-19.040	61.207	1.00	11.61
4393	O	ALA	A	570	32.232	-18.243	60.221	1.00	12.43
4394	N	LEU	A	571	32.943	-18.840	62.302	1.00	10.36
4395	CA	LEU	A	571	33.916	-17.738	62.368	1.00	10.99
4396	CB	LEU	A	571	33.437	-16.497	63.179	1.00	10.27
4397	CG	LEU	A	571	31.900	-16.261	62.977	1.00	12.24
4398	CD1	LEU	A	571	31.055	-17.481	63.368	1.00	5.20
4399	CD2	LEU	A	571	31.284	-14.976	63.741	1.00	8.52
4400	C	LEU	A	571	35.133	-18.461	62.920	1.00	9.68
4401	O	LEU	A	571	35.025	-19.178	63.900	1.00	9.36
4402	N	VAL	A	572	36.218	-18.373	62.156	1.00	9.26
4403	CA	VAL	A	572	37.493	-18.907	62.464	1.00	10.75
4404	CB	VAL	A	572	38.029	-19.739	61.322	1.00	11.55
4405	CG1	VAL	A	572	39.259	-20.616	61.832	1.00	11.95
4406	CG2	VAL	A	572	36.969	-20.653	60.741	1.00	11.36
4407	C	VAL	A	572	38.458	-17.744	62.719	1.00	10.86
4408	O	VAL	A	572	38.457	-16.747	62.023	1.00	9.81
4409	N	ASP	A	573	39.186	-17.875	63.815	1.00	10.44
4410	CA	ASP	A	573	40.226	-16.981	64.213	1.00	9.92
4411	CB	ASP	A	573	40.063	-16.763	65.722	1.00	10.95
4412	CG	ASP	A	573	39.085	-15.609	66.100	1.00	11.51
4413	OD1	ASP	A	573	38.772	-14.697	65.302	1.00	14.51
4414	OD2	ASP	A	573	38.618	-15.518	67.265	1.00	13.57
4415	C	ASP	A	573	41.548	-17.785	63.948	1.00	10.68
4416	O	ASP	A	573	41.705	-18.937	64.409	1.00	8.95
4417	N	GLY	A	574	42.468	-17.242	63.176	1.00	10.29
4418	CA	GLY	A	574	43.713	-17.917	62.964	1.00	11.65
4419	C	GLY	A	574	44.857	-16.951	63.069	1.00	12.87
4420	O	GLY	A	574	45.051	-16.207	64.035	1.00	13.45
4421	N	ARG	A	575	45.632	-16.897	62.014	1.00	14.44
4422	CA	ARG	A	575	46.834	-16.156	62.129	1.00	14.95
4423	CB	ARG	A	575	47.851	-16.692	61.175	1.00	15.63
4424	CG	ARG	A	575	48.377	-18.035	61.574	1.00	15.26
4425	CD	ARG	A	575	49.299	-18.605	60.603	1.00	17.89
4426	NE	ARG	A	575	48.669	-19.505	59.631	1.00	22.80
4427	CZ	ARG	A	575	49.374	-20.157	58.700	1.00	25.89
4428	NH1	ARG	A	575	50.694	-20.015	58.620	1.00	27.49

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4429	NH2	ARG	A	575	48.770	-20.969	57.850	1.00	28.63
4430	C	ARG	A	575	46.466	-14.735	61.860	1.00	15.92
4431	O	ARG	A	575	45.595	-14.382	60.983	1.00	16.48
4432	N	GLY	A	576	47.064	-13.913	62.707	1.00	16.10
4433	CA	GLY	A	576	46.855	-12.477	62.682	1.00	15.88
4434	C	GLY	A	576	46.011	-12.020	63.846	1.00	15.63
4435	O	GLY	A	576	46.046	-10.861	64.181	1.00	16.27
4436	N	THR	A	577	45.288	-12.958	64.441	1.00	15.40
4437	CA	THR	A	577	44.314	-12.768	65.500	1.00	15.95
4438	CB	THR	A	577	43.457	-14.050	65.515	1.00	16.46
4439	OG1	THR	A	577	42.772	-14.182	64.232	1.00	16.24
4440	CG2	THR	A	577	42.390	-13.943	66.541	1.00	17.77
4441	C	THR	A	577	45.025	-12.640	66.828	1.00	15.45
4442	O	THR	A	577	45.962	-13.378	67.061	1.00	15.76
4443	N	ALA	A	578	44.598	-11.721	67.691	1.00	14.72
4444	CA	ALA	A	578	45.281	-11.463	68.992	1.00	13.87
4445	CB	ALA	A	578	45.036	-10.010	69.444	1.00	13.67
4446	C	ALA	A	578	44.900	-12.408	70.137	1.00	13.14
4447	O	ALA	A	578	43.970	-13.171	70.032	1.00	13.78
4448	N	PHE	A	579	45.685	-12.356	71.201	1.00	12.39
4449	CA	PHE	A	579	45.345	-12.867	72.535	1.00	11.81
4450	CB	PHE	A	579	43.871	-12.592	72.846	1.00	11.61
4451	CG	PHE	A	579	43.447	-11.171	72.527	1.00	9.34
4452	CD1	PHE	A	579	44.193	-10.081	73.007	1.00	8.78
4453	CE1	PHE	A	579	43.869	-8.747	72.700	1.00	9.02
4454	CZ	PHE	A	579	42.755	-8.469	71.928	1.00	10.82
4455	CE2	PHE	A	579	42.011	-9.569	71.394	1.00	11.42
4456	CD2	PHE	A	579	42.378	-10.930	71.730	1.00	10.26
4457	C	PHE	A	579	45.738	-14.328	72.737	1.00	12.03
4458	O	PHE	A	579	45.432	-14.910	73.765	1.00	10.94
4459	N	GLN	A	580	46.388	-14.945	71.739	1.00	13.07
4460	CA	GLN	A	580	47.001	-16.252	71.943	1.00	13.72
4461	CB	GLN	A	580	46.131	-17.354	71.335	1.00	14.99
4462	CG	GLN	A	580	45.711	-18.430	72.323	1.00	27.33
4463	CD	GLN	A	580	46.195	-19.809	71.922	1.00	36.83
4464	OE1	GLN	A	580	45.512	-20.808	72.146	1.00	34.60
4465	NE2	GLN	A	580	47.380	-19.867	71.324	1.00	39.88
4466	C	GLN	A	580	48.504	-16.201	71.689	1.00	11.88
4467	O	GLN	A	580	49.197	-17.159	71.437	1.00	10.04
4468	N	GLY	A	581	49.043	-14.972	71.900	1.00	11.31
4469	CA	GLY	A	581	50.484	-14.863	71.853	1.00	11.23
4470	C	GLY	A	581	50.927	-14.421	70.457	1.00	11.88
4471	O	GLY	A	581	50.104	-14.134	69.623	1.00	12.19
4472	N	ASP	A	582	52.232	-14.401	70.244	1.00	11.67
4473	CA	ASP	A	582	52.874	-13.641	69.226	1.00	11.49
4474	CB	ASP	A	582	54.135	-12.948	69.817	1.00	12.09
4475	CG	ASP	A	582	53.827	-11.563	70.567	1.00	13.20
4476	OD1	ASP	A	582	54.819	-10.912	71.158	1.00	10.28
4477	OD2	ASP	A	582	52.627	-11.116	70.635	1.00	13.29
4478	C	ASP	A	582	53.267	-14.569	68.086	1.00	11.66
4479	O	ASP	A	582	53.441	-14.081	66.970	1.00	10.95

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4480	N	LYS	A	583	53.465	-15.887	68.320	1.00	11.86
4481	CA	LYS	A	583	53.697	-16.761	67.164	1.00	12.29
4482	CB	LYS	A	583	54.098	-18.163	67.529	1.00	12.77
4483	CG	LYS	A	583	54.984	-18.830	66.413	1.00	14.18
4484	CD	LYS	A	583	55.647	-20.131	66.856	1.00	13.18
4485	CE	LYS	A	583	54.950	-21.359	66.230	1.00	13.10
4486	NZ	LYS	A	583	55.813	-22.529	66.444	1.00	15.22
4487	C	LYS	A	583	52.446	-16.775	66.293	1.00	12.66
4488	O	LYS	A	583	52.558	-16.845	65.054	1.00	13.89
4489	N	LEU	A	584	51.263	-16.648	66.915	1.00	11.39
4490	CA	LEU	A	584	49.987	-16.450	66.181	1.00	8.84
4491	CB	LEU	A	584	48.734	-16.711	67.061	1.00	8.55
4492	CG	LEU	A	584	47.672	-17.727	66.540	1.00	8.39
4493	CD1	LEU	A	584	46.227	-17.556	67.025	1.00	2.00
4494	CD2	LEU	A	584	47.655	-17.778	65.041	1.00	2.00
4495	C	LEU	A	584	49.881	-15.039	65.611	1.00	8.67
4496	O	LEU	A	584	49.669	-14.845	64.385	1.00	9.11
4497	N	LEU	A	585	49.998	-14.046	66.480	1.00	6.85
4498	CA	LEU	A	585	49.571	-12.725	66.093	1.00	5.34
4499	CB	LEU	A	585	49.618	-11.791	67.286	1.00	5.06
4500	CG	LEU	A	585	49.097	-10.385	66.917	1.00	5.14
4501	CD1	LEU	A	585	47.628	-10.484	66.963	1.00	2.84
4502	CD2	LEU	A	585	49.647	-9.297	67.874	1.00	2.00
4503	C	LEU	A	585	50.445	-12.162	64.971	1.00	5.12
4504	O	LEU	A	585	49.964	-11.847	63.916	1.00	3.74
4505	N	TYR	A	586	51.737	-12.077	65.220	1.00	4.89
4506	CA	TYR	A	586	52.659	-11.493	64.272	1.00	6.30
4507	CB	TYR	A	586	54.010	-11.232	64.971	1.00	6.74
4508	CG	TYR	A	586	53.966	-10.189	66.073	1.00	7.60
4509	CD1	TYR	A	586	53.264	-8.946	65.891	1.00	8.39
4510	CE1	TYR	A	586	53.223	-8.013	66.881	1.00	7.15
4511	CZ	TYR	A	586	53.887	-8.258	68.057	1.00	11.01
4512	OH	TYR	A	586	53.887	-7.317	69.068	1.00	13.43
4513	CE2	TYR	A	586	54.597	-9.440	68.239	1.00	14.31
4514	CD2	TYR	A	586	54.631	-10.391	67.257	1.00	12.20
4515	C	TYR	A	586	52.928	-12.328	63.027	1.00	7.23
4516	O	TYR	A	586	53.581	-11.798	62.139	1.00	8.19
4517	N	ALA	A	587	52.494	-13.613	62.964	1.00	6.76
4518	CA	ALA	A	587	52.699	-14.448	61.767	1.00	6.08
4519	CB	ALA	A	587	51.948	-15.675	61.886	1.00	4.46
4520	C	ALA	A	587	52.295	-13.773	60.479	1.00	7.93
4521	O	ALA	A	587	52.783	-14.123	59.428	1.00	8.91
4522	N	VAL	A	588	51.365	-12.819	60.543	1.00	7.92
4523	CA	VAL	A	588	50.993	-12.039	59.381	1.00	8.93
4524	CB	VAL	A	588	49.481	-11.619	59.443	1.00	8.36
4525	CG1	VAL	A	588	48.602	-12.817	59.490	1.00	7.91
4526	CG2	VAL	A	588	49.164	-10.742	60.647	1.00	8.49
4527	C	VAL	A	588	51.903	-10.805	59.085	1.00	9.94
4528	O	VAL	A	588	51.676	-10.058	58.102	1.00	11.19
4529	N	TYR	A	589	52.947	-10.586	59.872	1.00	11.04
4530	CA	TYR	A	589	53.739	-9.374	59.695	1.00	11.11

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4531	CB	TYR	A	589	54.853	-9.342	60.717	1.00	9.60
4532	CG	TYR	A	589	55.590	-8.043	60.841	1.00	9.16
4533	CD1	TYR	A	589	54.899	-6.839	60.921	1.00	11.09
4534	CE1	TYR	A	589	55.583	-5.647	61.022	1.00	12.19
4535	CZ	TYR	A	589	56.969	-5.683	61.094	1.00	10.53
4536	OH	TYR	A	589	57.618	-4.502	61.189	1.00	12.33
4537	CE2	TYR	A	589	57.654	-6.850	61.019	1.00	6.10
4538	CD2	TYR	A	589	56.979	-8.015	60.907	1.00	5.62
4539	C	TYR	A	589	54.293	-9.347	58.282	1.00	10.91
4540	O	TYR	A	589	55.146	-10.099	57.928	1.00	9.89
4541	N	ARG	A	590	53.696	-8.555	57.441	1.00	11.92
4542	CA	ARG	A	590	54.221	-8.295	56.099	1.00	12.72
4543	CB	ARG	A	590	55.734	-8.093	56.120	1.00	12.73
4544	CG	ARG	A	590	56.207	-6.945	56.984	1.00	13.41
4545	CD	ARG	A	590	57.594	-7.177	57.567	1.00	21.21
4546	NE	ARG	A	590	58.570	-7.670	56.602	1.00	23.70
4547	CZ	ARG	A	590	59.204	-6.907	55.713	1.00	26.77
4548	NH1	ARG	A	590	58.966	-5.570	55.630	1.00	22.55
4549	NH2	ARG	A	590	60.102	-7.497	54.902	1.00	27.70
4550	C	ARG	A	590	53.840	-9.315	55.034	1.00	13.10
4551	O	ARG	A	590	54.136	-9.095	53.872	1.00	14.10
4552	N	LYS	A	591	53.224	-10.432	55.405	1.00	13.94
4553	CA	LYS	A	591	52.529	-11.252	54.411	1.00	14.97
4554	CB	LYS	A	591	53.149	-12.676	54.152	1.00	13.83
4555	CG	LYS	A	591	53.763	-13.470	55.301	1.00	17.32
4556	CD	LYS	A	591	54.871	-14.577	54.790	1.00	17.47
4557	CE	LYS	A	591	55.900	-15.029	55.929	1.00	16.68
4558	NZ	LYS	A	591	57.370	-14.646	55.821	1.00	16.34
4559	C	LYS	A	591	50.999	-11.226	54.669	1.00	14.34
4560	O	LYS	A	591	50.363	-12.273	54.905	1.00	15.99
4561	N	LEU	A	592	50.422	-10.023	54.634	1.00	13.54
4562	CA	LEU	A	592	48.965	-9.864	54.754	1.00	13.28
4563	CB	LEU	A	592	48.578	-8.373	54.817	1.00	13.24
4564	CG	LEU	A	592	48.048	-7.730	56.096	1.00	13.13
4565	CD1	LEU	A	592	48.494	-8.525	57.305	1.00	7.36
4566	CD2	LEU	A	592	48.513	-6.342	56.216	1.00	8.89
4567	C	LEU	A	592	48.155	-10.494	53.582	1.00	14.34
4568	O	LEU	A	592	48.597	-10.504	52.390	1.00	14.72
4569	N	GLY	A	593	46.930	-10.935	53.914	1.00	14.33
4570	CA	GLY	A	593	46.114	-11.693	52.992	1.00	14.24
4571	C	GLY	A	593	46.494	-13.170	53.015	1.00	15.51
4572	O	GLY	A	593	45.645	-14.053	52.854	1.00	16.92
4573	N	VAL	A	594	47.741	-13.490	53.266	1.00	13.17
4574	CA	VAL	A	594	48.151	-14.821	52.955	1.00	13.10
4575	CB	VAL	A	594	49.699	-14.904	52.710	1.00	13.65
4576	CG1	VAL	A	594	50.078	-16.356	52.273	1.00	13.16
4577	CG2	VAL	A	594	50.154	-13.833	51.609	1.00	11.24
4578	C	VAL	A	594	47.637	-15.860	53.937	1.00	12.82
4579	O	VAL	A	594	46.782	-16.653	53.567	1.00	12.78
4580	N	TYR	A	595	48.115	-15.851	55.179	1.00	12.06
4581	CA	TYR	A	595	47.757	-16.931	56.123	1.00	12.45

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4582	CB	TYR	A	595	48.671	-16.894	57.347	1.00	12.43
4583	CG	TYR	A	595	50.149	-17.089	57.008	1.00	15.05
4584	CD1	TYR	A	595	51.102	-16.270	57.553	1.00	16.35
4585	CE1	TYR	A	595	52.453	-16.439	57.224	1.00	24.06
4586	CZ	TYR	A	595	52.851	-17.447	56.316	1.00	24.25
4587	OH	TYR	A	595	54.196	-17.594	56.013	1.00	27.94
4588	CE2	TYR	A	595	51.895	-18.274	55.746	1.00	21.46
4589	CD2	TYR	A	595	50.568	-18.105	56.101	1.00	18.14
4590	C	TYR	A	595	46.286	-16.883	56.557	1.00	12.49
4591	O	TYR	A	595	45.619	-17.938	56.830	1.00	11.41
4592	N	GLU	A	596	45.784	-15.644	56.609	1.00	12.02
4593	CA	GLU	A	596	44.394	-15.447	57.008	1.00	11.94
4594	CB	GLU	A	596	44.051	-13.987	57.218	1.00	13.32
4595	CG	GLU	A	596	44.610	-13.075	56.168	1.00	14.34
4596	CD	GLU	A	596	45.873	-12.431	56.582	1.00	16.31
4597	OE1	GLU	A	596	46.985	-12.852	56.179	1.00	17.84
4598	OE2	GLU	A	596	45.708	-11.484	57.307	1.00	22.24
4599	C	GLU	A	596	43.506	-16.138	56.016	1.00	11.91
4600	O	GLU	A	596	42.588	-16.779	56.396	1.00	13.30
4601	N	VAL	A	597	43.852	-16.134	54.756	1.00	10.88
4602	CA	VAL	A	597	43.090	-16.877	53.799	1.00	10.06
4603	CB	VAL	A	597	43.360	-16.455	52.325	1.00	10.82
4604	CG1	VAL	A	597	42.923	-17.587	51.281	1.00	7.82
4605	CG2	VAL	A	597	42.622	-15.182	52.042	1.00	7.58
4606	C	VAL	A	597	43.348	-18.347	53.983	1.00	10.96
4607	O	VAL	A	597	42.413	-19.134	53.990	1.00	9.95
4608	N	GLU	A	598	44.607	-18.739	54.120	1.00	11.61
4609	CA	GLU	A	598	44.854	-20.155	54.178	1.00	12.52
4610	CB	GLU	A	598	46.361	-20.436	54.079	1.00	13.48
4611	CG	GLU	A	598	46.709	-21.939	54.005	1.00	17.69
4612	CD	GLU	A	598	48.125	-22.237	54.470	1.00	22.64
4613	OE1	GLU	A	598	48.366	-23.351	54.981	1.00	22.96
4614	OE2	GLU	A	598	48.988	-21.335	54.338	1.00	25.80
4615	C	GLU	A	598	44.139	-20.829	55.415	1.00	12.62
4616	O	GLU	A	598	43.853	-22.032	55.381	1.00	11.45
4617	N	ASP	A	599	43.782	-20.045	56.459	1.00	12.38
4618	CA	ASP	A	599	43.226	-20.631	57.719	1.00	12.29
4619	CB	ASP	A	599	43.682	-19.843	58.969	1.00	11.04
4620	CG	ASP	A	599	45.155	-20.001	59.248	1.00	12.73
4621	OD1	ASP	A	599	45.798	-20.909	58.686	1.00	12.24
4622	OD2	ASP	A	599	45.798	-19.265	60.009	1.00	18.02
4623	C	ASP	A	599	41.667	-20.718	57.602	1.00	11.70
4624	O	ASP	A	599	41.033	-21.626	58.108	1.00	11.89
4625	N	GLN	A	600	41.050	-19.817	56.866	1.00	9.80
4626	CA	GLN	A	600	39.647	-20.041	56.579	1.00	9.50
4627	CB	GLN	A	600	39.058	-18.842	55.884	1.00	8.45
4628	CG	GLN	A	600	39.376	-17.559	56.610	1.00	7.55
4629	CD	GLN	A	600	38.616	-17.307	57.915	1.00	9.31
4630	OE1	GLN	A	600	37.385	-17.108	57.894	1.00	9.90
4631	NE2	GLN	A	600	39.375	-17.134	59.037	1.00	2.74
4632	C	GLN	A	600	39.502	-21.243	55.674	1.00	10.25

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4633	O	GLN	A	600	38.459	-21.868	55.598	1.00	10.93
4634	N	ILE	A	601	40.536	-21.542	54.922	1.00	10.65
4635	CA	ILE	A	601	40.400	-22.594	53.965	1.00	11.51
4636	CB	ILE	A	601	41.447	-22.479	52.849	1.00	11.20
4637	CG1	ILE	A	601	40.968	-21.427	51.883	1.00	10.52
4638	CD1	ILE	A	601	42.009	-21.038	50.852	1.00	12.17
4639	CG2	ILE	A	601	41.583	-23.780	52.037	1.00	9.81
4640	C	ILE	A	601	40.477	-23.876	54.794	1.00	12.33
4641	O	ILE	A	601	39.560	-24.689	54.783	1.00	12.62
4642	N	THR	A	602	41.570	-23.999	55.530	1.00	13.02
4643	CA	THR	A	602	41.791	-25.070	56.478	1.00	13.47
4644	CB	THR	A	602	42.953	-24.645	57.399	1.00	13.38
4645	OG1	THR	A	602	44.195	-24.707	56.685	1.00	14.93
4646	CG2	THR	A	602	43.152	-25.643	58.518	1.00	14.12
4647	C	THR	A	602	40.509	-25.380	57.270	1.00	12.72
4648	O	THR	A	602	39.979	-26.430	57.177	1.00	12.54
4649	N	ALA	A	603	40.010	-24.453	58.040	1.00	13.09
4650	CA	ALA	A	603	38.724	-24.656	58.679	1.00	13.77
4651	CB	ALA	A	603	38.170	-23.343	59.125	1.00	13.36
4652	C	ALA	A	603	37.711	-25.353	57.778	1.00	14.11
4653	O	ALA	A	603	37.254	-26.445	58.076	1.00	13.61
4654	N	VAL	A	604	37.351	-24.709	56.674	1.00	14.50
4655	CA	VAL	A	604	36.304	-25.284	55.845	1.00	14.59
4656	CB	VAL	A	604	36.150	-24.523	54.546	1.00	15.04
4657	CG1	VAL	A	604	35.093	-25.247	53.631	1.00	13.44
4658	CG2	VAL	A	604	35.843	-23.001	54.796	1.00	14.13
4659	C	VAL	A	604	36.626	-26.774	55.566	1.00	14.97
4660	O	VAL	A	604	35.923	-27.652	55.993	1.00	15.49
4661	N	ARG	A	605	37.715	-27.037	54.869	1.00	15.00
4662	CA	ARG	A	605	38.221	-28.390	54.661	1.00	15.18
4663	CB	ARG	A	605	39.728	-28.334	54.289	1.00	15.84
4664	CG	ARG	A	605	40.044	-28.464	52.770	1.00	16.02
4665	CD	ARG	A	605	41.561	-28.340	52.376	1.00	16.78
4666	NE	ARG	A	605	41.832	-27.483	51.231	1.00	15.94
4667	CZ	ARG	A	605	41.151	-27.492	50.071	1.00	18.12
4668	NH1	ARG	A	605	41.480	-26.638	49.116	1.00	17.31
4669	NH2	ARG	A	605	40.129	-28.315	49.841	1.00	20.50
4670	C	ARG	A	605	38.001	-29.337	55.862	1.00	15.04
4671	O	ARG	A	605	37.660	-30.488	55.674	1.00	14.72
4672	N	LYS	A	606	38.233	-28.822	57.071	1.00	15.13
4673	CA	LYS	A	606	38.010	-29.528	58.354	1.00	14.83
4674	CB	LYS	A	606	38.927	-28.986	59.471	1.00	14.64
4675	CG	LYS	A	606	39.922	-29.995	60.036	1.00	13.98
4676	CD	LYS	A	606	41.190	-30.206	59.148	1.00	14.55
4677	CE	LYS	A	606	41.871	-31.714	59.160	1.00	13.37
4678	NZ	LYS	A	606	41.841	-32.537	60.462	1.00	7.93
4679	C	LYS	A	606	36.513	-29.561	58.778	1.00	14.49
4680	O	LYS	A	606	36.023	-30.629	59.130	1.00	15.32
4681	N	PHE	A	607	35.752	-28.468	58.677	1.00	13.72
4682	CA	PHE	A	607	34.295	-28.588	58.823	1.00	13.15
4683	CB	PHE	A	607	33.629	-27.256	58.612	1.00	12.87

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4684	CG	PHE	A	607	34.144	-26.162	59.515	1.00	12.76
4685	CD1	PHE	A	607	34.078	-24.829	59.090	1.00	10.84
4686	CE1	PHE	A	607	34.505	-23.784	59.876	1.00	9.29
4687	CZ	PHE	A	607	35.068	-24.064	61.104	1.00	14.26
4688	CE2	PHE	A	607	35.161	-25.425	61.572	1.00	11.70
4689	CD2	PHE	A	607	34.680	-26.455	60.772	1.00	12.28
4690	C	PHE	A	607	33.672	-29.556	57.817	1.00	13.41
4691	O	PHE	A	607	32.672	-30.203	58.126	1.00	13.97
4692	N	ILE	A	608	34.252	-29.653	56.617	1.00	12.25
4693	CA	ILE	A	608	33.706	-30.499	55.587	1.00	11.81
4694	CB	ILE	A	608	34.366	-30.221	54.210	1.00	11.35
4695	CG1	ILE	A	608	33.997	-28.844	53.685	1.00	9.14
4696	CD1	ILE	A	608	34.846	-28.371	52.453	1.00	6.43
4697	CG2	ILE	A	608	33.947	-31.267	53.216	1.00	8.46
4698	C	ILE	A	608	33.854	-31.980	55.980	1.00	12.69
4699	O	ILE	A	608	32.896	-32.728	55.871	1.00	12.56
4700	N	GLU	A	609	35.032	-32.409	56.430	1.00	13.38
4701	CA	GLU	A	609	35.167	-33.793	56.895	1.00	14.81
4702	CB	GLU	A	609	36.662	-34.229	56.934	1.00	15.48
4703	CG	GLU	A	609	37.731	-33.277	57.496	1.00	17.08
4704	CD	GLU	A	609	38.968	-34.024	58.076	1.00	20.41
4705	OE1	GLU	A	609	39.473	-35.026	57.478	1.00	16.53
4706	OE2	GLU	A	609	39.444	-33.614	59.163	1.00	21.73
4707	C	GLU	A	609	34.345	-34.132	58.219	1.00	15.02
4708	O	GLU	A	609	34.172	-35.292	58.614	1.00	15.29
4709	N	MET	A	610	33.790	-33.111	58.870	1.00	15.00
4710	CA	MET	A	610	32.876	-33.335	59.966	1.00	14.92
4711	CB	MET	A	610	32.600	-32.017	60.710	1.00	16.28
4712	CG	MET	A	610	33.802	-31.569	61.639	1.00	18.15
4713	SD	MET	A	610	33.645	-29.990	62.645	1.00	20.37
4714	CE	MET	A	610	33.711	-30.806	64.409	1.00	19.73
4715	C	MET	A	610	31.616	-34.046	59.486	1.00	14.08
4716	O	MET	A	610	31.124	-34.949	60.151	1.00	14.29
4717	N	GLY	A	611	31.130	-33.678	58.313	1.00	13.31
4718	CA	GLY	A	611	30.237	-34.515	57.526	1.00	12.32
4719	C	GLY	A	611	28.791	-34.150	57.449	1.00	11.97
4720	O	GLY	A	611	28.015	-34.902	56.961	1.00	12.15
4721	N	PHE	A	612	28.438	-32.979	57.935	1.00	12.46
4722	CA	PHE	A	612	27.102	-32.384	57.816	1.00	11.84
4723	CB	PHE	A	612	26.526	-32.060	59.222	1.00	12.42
4724	CG	PHE	A	612	27.503	-31.333	60.151	1.00	9.08
4725	CD1	PHE	A	612	27.648	-29.973	60.098	1.00	9.40
4726	CE1	PHE	A	612	28.542	-29.290	60.930	1.00	8.65
4727	CZ	PHE	A	612	29.314	-29.997	61.839	1.00	10.43
4728	CE2	PHE	A	612	29.183	-31.382	61.908	1.00	8.19
4729	CD2	PHE	A	612	28.273	-32.033	61.066	1.00	9.35
4730	C	PHE	A	612	27.251	-31.092	57.008	1.00	12.08
4731	O	PHE	A	612	26.418	-30.188	57.086	1.00	13.20
4732	N	ILE	A	613	28.339	-30.938	56.257	1.00	11.16
4733	CA	ILE	A	613	28.399	-29.810	55.350	1.00	9.97
4734	CB	ILE	A	613	29.749	-29.073	55.431	1.00	9.97

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4735	CG1	ILE	A	613	30.020	-28.452	56.820	1.00	8.67
4736	CD1	ILE	A	613	28.850	-27.889	57.547	1.00	6.92
4737	CG2	ILE	A	613	29.804	-28.048	54.326	1.00	6.40
4738	C	ILE	A	613	28.203	-30.312	53.918	1.00	10.19
4739	O	ILE	A	613	28.819	-31.300	53.484	1.00	8.85
4740	N	ASP	A	614	27.374	-29.581	53.183	1.00	9.76
4741	CA	ASP	A	614	27.255	-29.804	51.750	1.00	10.17
4742	CB	ASP	A	614	25.824	-29.538	51.331	1.00	9.90
4743	CG	ASP	A	614	25.641	-29.473	49.830	1.00	10.74
4744	OD1	ASP	A	614	24.588	-28.928	49.429	1.00	4.70
4745	OD2	ASP	A	614	26.464	-29.916	48.996	1.00	11.41
4746	C	ASP	A	614	28.277	-28.915	51.029	1.00	10.81
4747	O	ASP	A	614	28.140	-27.666	50.982	1.00	11.11
4748	N	GLU	A	615	29.288	-29.592	50.481	1.00	10.81
4749	CA	GLU	A	615	30.496	-29.015	49.857	1.00	11.62
4750	CB	GLU	A	615	31.493	-30.132	49.417	1.00	11.81
4751	CG	GLU	A	615	30.954	-31.583	49.515	1.00	16.20
4752	CD	GLU	A	615	32.043	-32.628	49.463	1.00	20.20
4753	OE1	GLU	A	615	31.755	-33.714	48.908	1.00	25.77
4754	OE2	GLU	A	615	33.178	-32.394	49.966	1.00	18.11
4755	C	GLU	A	615	30.142	-28.221	48.635	1.00	11.16
4756	O	GLU	A	615	30.822	-27.280	48.277	1.00	9.88
4757	N	LYS	A	616	29.094	-28.667	47.959	1.00	11.30
4758	CA	LYS	A	616	28.542	-27.897	46.849	1.00	12.48
4759	CB	LYS	A	616	27.528	-28.743	46.011	1.00	12.18
4760	CG	LYS	A	616	28.202	-29.873	45.123	1.00	16.17
4761	CD	LYS	A	616	27.224	-30.908	44.525	1.00	19.16
4762	CE	LYS	A	616	27.938	-32.197	44.031	1.00	21.90
4763	NZ	LYS	A	616	27.877	-33.375	44.992	1.00	24.39
4764	C	LYS	A	616	27.927	-26.537	47.285	1.00	11.96
4765	O	LYS	A	616	27.682	-25.713	46.436	1.00	12.93
4766	N	ARG	A	617	27.678	-26.295	48.563	1.00	11.31
4767	CA	ARG	A	617	27.043	-25.028	48.957	1.00	11.23
4768	CB	ARG	A	617	25.668	-25.404	49.457	1.00	12.19
4769	CG	ARG	A	617	24.805	-26.094	48.426	1.00	13.63
4770	CD	ARG	A	617	23.321	-25.878	48.649	1.00	14.81
4771	NE	ARG	A	617	22.785	-26.978	49.439	1.00	18.47
4772	CZ	ARG	A	617	21.870	-26.856	50.401	1.00	19.10
4773	NH1	ARG	A	617	21.444	-27.945	51.086	1.00	16.15
4774	NH2	ARG	A	617	21.345	-25.654	50.648	1.00	18.00
4775	C	ARG	A	617	27.784	-24.166	50.041	1.00	10.56
4776	O	ARG	A	617	27.451	-24.175	51.239	1.00	10.43
4777	N	ILE	A	618	28.804	-23.431	49.671	1.00	9.14
4778	CA	ILE	A	618	29.467	-22.718	50.723	1.00	9.12
4779	CB	ILE	A	618	30.775	-23.478	51.247	1.00	9.17
4780	CG1	ILE	A	618	30.421	-24.839	51.824	1.00	6.78
4781	CD1	ILE	A	618	31.554	-25.771	51.815	1.00	8.56
4782	CG2	ILE	A	618	31.502	-22.598	52.340	1.00	8.60
4783	C	ILE	A	618	29.823	-21.348	50.337	1.00	9.07
4784	O	ILE	A	618	30.297	-21.081	49.275	1.00	9.77
4785	N	ALA	A	619	29.676	-20.461	51.256	1.00	9.51

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4786	CA	ALA	A	619	29.979	-19.098	50.952	1.00	10.86
4787	CB	ALA	A	619	28.691	-18.330	50.819	1.00	10.62
4788	C	ALA	A	619	30.794	-18.539	52.080	1.00	12.51
4789	O	ALA	A	619	30.996	-19.163	53.115	1.00	13.12
4790	N	ILE	A	620	31.217	-17.318	51.906	1.00	13.35
4791	CA	ILE	A	620	31.996	-16.646	52.917	1.00	13.40
4792	CB	ILE	A	620	33.479	-16.996	52.743	1.00	13.78
4793	CG1	ILE	A	620	34.414	-16.025	53.475	1.00	14.69
4794	CD1	ILE	A	620	35.824	-16.651	53.697	1.00	8.65
4795	CG2	ILE	A	620	33.884	-17.130	51.233	1.00	11.93
4796	C	ILE	A	620	31.755	-15.256	52.618	1.00	14.53
4797	O	ILE	A	620	31.867	-14.844	51.462	1.00	16.67
4798	N	TRP	A	621	31.349	-14.510	53.628	1.00	14.53
4799	CA	TRP	A	621	31.116	-13.093	53.479	1.00	12.70
4800	CB	TRP	A	621	29.631	-12.803	53.702	1.00	12.58
4801	CG	TRP	A	621	29.283	-12.398	55.145	1.00	14.47
4802	CD1	TRP	A	621	29.060	-13.234	56.145	1.00	12.45
4803	NE1	TRP	A	621	28.750	-12.532	57.273	1.00	14.58
4804	CE2	TRP	A	621	28.720	-11.200	56.995	1.00	9.17
4805	CD2	TRP	A	621	29.067	-11.062	55.683	1.00	8.77
4806	CE3	TRP	A	621	29.130	-9.800	55.164	1.00	10.64
4807	CZ3	TRP	A	621	28.897	-8.718	55.977	1.00	10.03
4808	CH2	TRP	A	621	28.604	-8.882	57.288	1.00	13.30
4809	CZ2	TRP	A	621	28.495	-10.145	57.818	1.00	11.01
4810	C	TRP	A	621	31.960	-12.362	54.498	1.00	12.73
4811	O	TRP	A	621	32.392	-12.955	55.473	1.00	11.60
4812	N	GLY	A	622	32.143	-11.054	54.270	1.00	12.02
4813	CA	GLY	A	622	32.806	-10.199	55.213	1.00	12.09
4814	C	GLY	A	622	32.797	-8.743	54.939	1.00	12.24
4815	O	GLY	A	622	32.431	-8.391	53.862	1.00	13.74
4816	N	TRP	A	623	33.212	-7.918	55.911	1.00	11.66
4817	CA	TRP	A	623	33.119	-6.465	55.868	1.00	12.58
4818	CB	TRP	A	623	32.061	-5.980	56.843	1.00	11.02
4819	CG	TRP	A	623	31.622	-4.612	56.781	1.00	13.75
4820	CD1	TRP	A	623	32.382	-3.497	56.552	1.00	14.66
4821	NE1	TRP	A	623	31.601	-2.362	56.570	1.00	14.74
4822	CE2	TRP	A	623	30.299	-2.693	56.865	1.00	15.20
4823	CD2	TRP	A	623	30.251	-4.116	56.978	1.00	16.48
4824	CE3	TRP	A	623	29.021	-4.716	57.326	1.00	12.70
4825	CZ3	TRP	A	623	27.875	-3.904	57.416	1.00	15.67
4826	CH2	TRP	A	623	27.956	-2.486	57.297	1.00	14.84
4827	CZ2	TRP	A	623	29.158	-1.877	57.031	1.00	15.03
4828	C	TRP	A	623	34.451	-5.895	56.221	1.00	13.24
4829	O	TRP	A	623	34.954	-6.171	57.228	1.00	16.07
4830	N	SER	A	624	35.075	-5.148	55.342	1.00	15.07
4831	CA	SER	A	624	36.226	-4.302	55.665	1.00	16.21
4832	CB	SER	A	624	36.074	-3.605	57.007	1.00	15.51
4833	OG	SER	A	624	36.949	-2.544	57.045	1.00	16.34
4834	C	SER	A	624	37.515	-5.064	55.484	1.00	16.43
4835	O	SER	A	624	37.753	-5.517	54.336	1.00	18.83
4836	N	TYR	A	625	38.347	-5.264	56.492	1.00	15.36

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4837	CA	TYR	A	625	39.242	-6.395	56.351	1.00	14.66
4838	CB	TYR	A	625	40.123	-6.583	57.599	1.00	14.31
4839	CG	TYR	A	625	41.492	-7.224	57.309	1.00	10.39
4840	CD1	TYR	A	625	41.587	-8.605	57.055	1.00	7.83
4841	CE1	TYR	A	625	42.856	-9.234	56.806	1.00	5.06
4842	CZ	TYR	A	625	44.030	-8.443	56.804	1.00	5.78
4843	OH	TYR	A	625	45.253	-9.115	56.613	1.00	5.14
4844	CE2	TYR	A	625	43.944	-7.030	57.016	1.00	3.65
4845	CD2	TYR	A	625	42.682	-6.449	57.285	1.00	6.39
4846	C	TYR	A	625	38.455	-7.669	56.032	1.00	15.04
4847	O	TYR	A	625	38.956	-8.638	55.480	1.00	13.81
4848	N	GLY	A	626	37.175	-7.641	56.337	1.00	15.70
4849	CA	GLY	A	626	36.374	-8.829	56.151	1.00	16.69
4850	C	GLY	A	626	36.128	-9.215	54.720	1.00	16.15
4851	O	GLY	A	626	35.874	-10.395	54.370	1.00	18.83
4852	N	GLY	A	627	36.162	-8.234	53.868	1.00	13.61
4853	CA	GLY	A	627	35.808	-8.460	52.491	1.00	12.86
4854	C	GLY	A	627	37.054	-8.553	51.702	1.00	12.04
4855	O	GLY	A	627	36.983	-9.105	50.698	1.00	12.34
4856	N	TYR	A	628	38.140	-7.913	52.090	1.00	11.43
4857	CA	TYR	A	628	39.431	-8.321	51.680	1.00	11.89
4858	CB	TYR	A	628	40.432	-7.731	52.618	1.00	11.71
4859	CG	TYR	A	628	41.847	-7.932	52.227	1.00	16.10
4860	CD1	TYR	A	628	42.743	-8.668	53.023	1.00	18.56
4861	CE1	TYR	A	628	44.115	-8.855	52.613	1.00	16.59
4862	CZ	TYR	A	628	44.509	-8.290	51.429	1.00	17.02
4863	OH	TYR	A	628	45.797	-8.396	50.913	1.00	16.07
4864	CE2	TYR	A	628	43.591	-7.574	50.681	1.00	13.18
4865	CD2	TYR	A	628	42.325	-7.391	51.076	1.00	16.12
4866	C	TYR	A	628	39.518	-9.869	51.745	1.00	12.73
4867	O	TYR	A	628	39.635	-10.528	50.694	1.00	13.16
4868	N	VAL	A	629	39.434	-10.485	52.924	1.00	11.39
4869	CA	VAL	A	629	39.787	-11.910	52.943	1.00	12.54
4870	CB	VAL	A	629	40.379	-12.437	54.267	1.00	11.92
4871	CG1	VAL	A	629	40.744	-11.357	55.192	1.00	10.65
4872	CG2	VAL	A	629	39.438	-13.440	54.929	1.00	14.30
4873	C	VAL	A	629	38.673	-12.857	52.385	1.00	13.10
4874	O	VAL	A	629	38.988	-13.918	51.774	1.00	12.36
4875	N	SER	A	630	37.406	-12.494	52.548	1.00	12.75
4876	CA	SER	A	630	36.369	-13.219	51.753	1.00	12.71
4877	CB	SER	A	630	34.975	-12.662	52.041	1.00	12.76
4878	OG	SER	A	630	34.798	-11.493	51.286	1.00	13.87
4879	C	SER	A	630	36.646	-13.109	50.203	1.00	12.20
4880	O	SER	A	630	36.626	-14.100	49.451	1.00	9.29
4881	N	SER	A	631	36.902	-11.875	49.753	1.00	11.55
4882	CA	SER	A	631	37.203	-11.660	48.327	1.00	12.48
4883	CB	SER	A	631	37.633	-10.200	47.993	1.00	11.83
4884	OG	SER	A	631	36.499	-9.302	48.057	1.00	14.43
4885	C	SER	A	631	38.330	-12.600	47.986	1.00	12.88
4886	O	SER	A	631	38.235	-13.385	47.067	1.00	13.04
4887	N	LEU	A	632	39.368	-12.547	48.805	1.00	12.82

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4888	CA	LEU	A	632	40.614	-13.228	48.563	1.00	13.35
4889	CB	LEU	A	632	41.661	-12.667	49.547	1.00	13.19
4890	CG	LEU	A	632	43.004	-12.230	49.007	1.00	13.85
4891	CD1	LEU	A	632	42.852	-11.338	47.823	1.00	11.96
4892	CD2	LEU	A	632	43.803	-11.520	50.125	1.00	15.63
4893	C	LEU	A	632	40.440	-14.765	48.679	1.00	12.41
4894	O	LEU	A	632	41.147	-15.538	48.047	1.00	12.10
4895	N	ALA	A	633	39.470	-15.173	49.467	1.00	12.15
4896	CA	ALA	A	633	39.190	-16.608	49.690	1.00	12.07
4897	CB	ALA	A	633	38.544	-16.832	50.968	1.00	10.67
4898	C	ALA	A	633	38.321	-17.188	48.599	1.00	11.93
4899	O	ALA	A	633	38.549	-18.314	48.160	1.00	10.42
4900	N	LEU	A	634	37.311	-16.422	48.176	1.00	12.68
4901	CA	LEU	A	634	36.534	-16.809	47.019	1.00	12.46
4902	CB	LEU	A	634	35.533	-15.760	46.731	1.00	13.56
4903	CG	LEU	A	634	34.363	-16.197	45.866	1.00	15.51
4904	CD1	LEU	A	634	33.740	-17.467	46.339	1.00	14.37
4905	CD2	LEU	A	634	33.395	-15.048	45.920	1.00	16.95
4906	C	LEU	A	634	37.408	-16.962	45.798	1.00	12.86
4907	O	LEU	A	634	37.179	-17.798	44.945	1.00	12.92
4908	N	ALA	A	635	38.454	-16.158	45.733	1.00	13.21
4909	CA	ALA	A	635	39.306	-16.155	44.577	1.00	12.57
4910	CB	ALA	A	635	39.818	-14.761	44.341	1.00	12.57
4911	C	ALA	A	635	40.468	-17.092	44.700	1.00	13.49
4912	O	ALA	A	635	41.343	-17.006	43.858	1.00	13.98
4913	N	SER	A	636	40.487	-17.990	45.702	1.00	13.45
4914	CA	SER	A	636	41.709	-18.759	46.018	1.00	13.98
4915	CB	SER	A	636	41.829	-19.076	47.529	1.00	14.23
4916	OG	SER	A	636	40.760	-18.507	48.239	1.00	13.87
4917	C	SER	A	636	41.895	-20.060	45.223	1.00	13.63
4918	O	SER	A	636	42.788	-20.821	45.496	1.00	12.81
4919	N	GLY	A	637	41.018	-20.317	44.285	1.00	13.71
4920	CA	GLY	A	637	41.263	-21.304	43.261	1.00	15.56
4921	C	GLY	A	637	41.026	-22.741	43.659	1.00	16.59
4922	O	GLY	A	637	41.285	-23.634	42.850	1.00	16.13
4923	N	THR	A	638	40.501	-22.932	44.883	1.00	17.77
4924	CA	THR	A	638	40.291	-24.242	45.548	1.00	18.30
4925	CB	THR	A	638	40.499	-24.071	47.075	1.00	18.55
4926	OG1	THR	A	638	39.379	-23.392	47.641	1.00	19.89
4927	CG2	THR	A	638	41.681	-23.162	47.443	1.00	18.17
4928	C	THR	A	638	38.865	-24.812	45.376	1.00	17.95
4929	O	THR	A	638	38.572	-25.912	45.877	1.00	17.75
4930	N	GLY	A	639	37.959	-24.015	44.777	1.00	17.48
4931	CA	GLY	A	639	36.593	-24.446	44.504	1.00	16.92
4932	C	GLY	A	639	35.930	-25.093	45.701	1.00	16.70
4933	O	GLY	A	639	35.228	-26.047	45.595	1.00	15.17
4934	N	LEU	A	640	36.198	-24.549	46.880	1.00	17.54
4935	CA	LEU	A	640	35.464	-24.916	48.078	1.00	16.47
4936	CB	LEU	A	640	36.297	-24.662	49.311	1.00	16.24
4937	CG	LEU	A	640	37.299	-25.762	49.561	1.00	15.48
4938	CD1	LEU	A	640	38.187	-25.405	50.715	1.00	12.76

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4939	CD2	LEU	A	640	36.572	-27.090	49.804	1.00	14.98
4940	C	LEU	A	640	34.260	-23.999	48.087	1.00	16.08
4941	O	LEU	A	640	33.121	-24.473	48.248	1.00	15.75
4942	N	PHE	A	641	34.501	-22.708	47.859	1.00	14.87
4943	CA	PHE	A	641	33.430	-21.754	48.044	1.00	15.75
4944	CB	PHE	A	641	33.974	-20.399	48.384	1.00	14.32
4945	CG	PHE	A	641	34.775	-20.358	49.583	1.00	14.91
4946	CD1	PHE	A	641	34.180	-20.305	50.820	1.00	14.96
4947	CE1	PHE	A	641	34.961	-20.217	51.989	1.00	14.00
4948	CZ	PHE	A	641	36.336	-20.187	51.926	1.00	14.48
4949	CE2	PHE	A	641	36.944	-20.230	50.667	1.00	18.71
4950	CD2	PHE	A	641	36.149	-20.307	49.496	1.00	15.25
4951	C	PHE	A	641	32.632	-21.580	46.777	1.00	15.93
4952	O	PHE	A	641	33.194	-21.180	45.794	1.00	17.47
4953	N	LYS	A	642	31.330	-21.812	46.807	1.00	16.18
4954	CA	LYS	A	642	30.452	-21.633	45.635	1.00	16.80
4955	CB	LYS	A	642	29.088	-22.344	45.844	1.00	16.74
4956	CG	LYS	A	642	28.217	-22.435	44.659	1.00	19.00
4957	CD	LYS	A	642	26.687	-22.283	44.974	1.00	23.40
4958	CE	LYS	A	642	25.797	-23.530	44.362	1.00	25.84
4959	NZ	LYS	A	642	25.728	-23.695	42.857	1.00	21.29
4960	C	LYS	A	642	30.252	-20.141	45.396	1.00	17.07
4961	O	LYS	A	642	30.258	-19.685	44.217	1.00	18.16
4962	N	CYS	A	643	30.095	-19.367	46.477	1.00	17.02
4963	CA	CYS	A	643	30.003	-17.855	46.348	1.00	17.67
4964	CB	CYS	A	643	28.576	-17.357	46.098	1.00	17.56
4965	SG	CYS	A	643	27.482	-17.746	47.458	1.00	23.21
4966	C	CYS	A	643	30.588	-17.103	47.530	1.00	15.89
4967	O	CYS	A	643	31.096	-17.746	48.498	1.00	16.49
4968	N	GLY	A	644	30.574	-15.774	47.425	1.00	12.87
4969	CA	GLY	A	644	31.068	-14.930	48.485	1.00	12.14
4970	C	GLY	A	644	30.687	-13.451	48.399	1.00	12.36
4971	O	GLY	A	644	30.349	-12.957	47.362	1.00	12.48
4972	N	ILE	A	645	30.726	-12.739	49.504	1.00	10.84
4973	CA	ILE	A	645	30.272	-11.380	49.483	1.00	10.70
4974	CB	ILE	A	645	28.970	-11.162	50.288	1.00	10.77
4975	CG1	ILE	A	645	27.897	-12.197	49.981	1.00	7.07
4976	CD1	ILE	A	645	26.512	-11.908	50.785	1.00	9.49
4977	CG2	ILE	A	645	28.503	-9.691	50.128	1.00	5.10
4978	C	ILE	A	645	31.357	-10.573	50.126	1.00	11.96
4979	O	ILE	A	645	32.027	-11.132	51.021	1.00	11.82
4980	N	ALA	A	646	31.504	-9.304	49.705	1.00	10.31
4981	CA	ALA	A	646	32.462	-8.395	50.317	1.00	10.58
4982	CB	ALA	A	646	33.583	-8.304	49.494	1.00	9.85
4983	C	ALA	A	646	31.866	-7.013	50.458	1.00	12.00
4984	O	ALA	A	646	31.690	-6.286	49.504	1.00	12.56
4985	N	VAL	A	647	31.528	-6.647	51.663	1.00	12.86
4986	CA	VAL	A	647	31.083	-5.307	51.881	1.00	13.55
4987	CB	VAL	A	647	30.013	-5.345	52.951	1.00	13.42
4988	CG1	VAL	A	647	29.364	-3.980	53.089	1.00	16.16
4989	CG2	VAL	A	647	28.973	-6.349	52.597	1.00	11.54

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
4990	C	VAL	A	647	32.324	-4.452	52.266	1.00	13.47
4991	O	VAL	A	647	33.158	-4.881	53.061	1.00	11.89
4992	N	ALA	A	648	32.377	-3.275	51.696	1.00	12.54
4993	CA	ALA	A	648	33.463	-2.333	51.748	1.00	13.46
4994	CB	ALA	A	648	33.244	-1.407	52.814	1.00	13.66
4995	C	ALA	A	648	34.866	-2.887	51.897	1.00	13.33
4996	O	ALA	A	648	35.531	-2.486	52.794	1.00	15.25
4997	N	PRO	A	649	35.297	-3.819	51.065	1.00	13.42
4998	CA	PRO	A	649	36.636	-4.397	51.192	1.00	13.75
4999	CB	PRO	A	649	36.633	-5.476	50.140	1.00	11.52
5000	CG	PRO	A	649	35.557	-5.119	49.252	1.00	11.02
5001	CD	PRO	A	649	34.505	-4.536	50.048	1.00	13.47
5002	C	PRO	A	649	37.779	-3.460	50.906	1.00	14.12
5003	O	PRO	A	649	37.791	-2.849	49.896	1.00	15.24
5004	N	VAL	A	650	38.794	-3.447	51.720	1.00	14.37
5005	CA	VAL	A	650	40.058	-3.019	51.215	1.00	13.28
5006	CB	VAL	A	650	41.123	-3.140	52.300	1.00	14.17
5007	CG1	VAL	A	650	42.482	-3.325	51.649	1.00	7.16
5008	CG2	VAL	A	650	41.115	-1.813	53.233	1.00	13.77
5009	C	VAL	A	650	40.446	-3.918	50.037	1.00	14.13
5010	O	VAL	A	650	40.337	-5.154	50.149	1.00	14.72
5011	N	SER	A	651	40.933	-3.313	48.940	1.00	13.23
5012	CA	SER	A	651	41.398	-4.050	47.724	1.00	13.03
5013	CB	SER	A	651	40.758	-3.400	46.502	1.00	13.27
5014	OG	SER	A	651	41.311	-2.092	46.254	1.00	16.60
5015	C	SER	A	651	42.909	-4.134	47.528	1.00	12.89
5016	O	SER	A	651	43.408	-5.003	46.902	1.00	12.66
5017	N	SER	A	652	43.641	-3.189	48.087	1.00	14.21
5018	CA	SER	A	652	45.090	-3.256	48.187	1.00	15.25
5019	CB	SER	A	652	45.667	-2.943	46.806	1.00	14.95
5020	OG	SER	A	652	46.562	-1.833	46.841	1.00	18.04
5021	C	SER	A	652	45.666	-2.245	49.250	1.00	14.95
5022	O	SER	A	652	45.206	-1.081	49.413	1.00	16.14
5023	N	TRP	A	653	46.723	-2.653	49.910	1.00	13.58
5024	CA	TRP	A	653	47.191	-1.866	51.023	1.00	13.09
5025	CB	TRP	A	653	48.152	-2.737	51.815	1.00	12.08
5026	CG	TRP	A	653	47.386	-3.886	52.332	1.00	11.78
5027	CD1	TRP	A	653	47.461	-5.209	51.947	1.00	12.61
5028	NE1	TRP	A	653	46.485	-5.941	52.607	1.00	4.60
5029	CE2	TRP	A	653	45.786	-5.113	53.442	1.00	7.02
5030	CD2	TRP	A	653	46.263	-3.806	53.236	1.00	9.81
5031	CE3	TRP	A	653	45.661	-2.757	53.944	1.00	6.95
5032	CZ3	TRP	A	653	44.666	-3.054	54.815	1.00	6.65
5033	CH2	TRP	A	653	44.177	-4.352	54.937	1.00	7.35
5034	CZ2	TRP	A	653	44.742	-5.389	54.283	1.00	5.97
5035	C	TRP	A	653	47.760	-0.514	50.604	1.00	13.29
5036	O	TRP	A	653	47.925	0.354	51.411	1.00	14.07
5037	N	GLU	A	654	47.986	-0.315	49.316	1.00	13.55
5038	CA	GLU	A	654	48.320	0.979	48.697	1.00	13.93
5039	CB	GLU	A	654	48.517	0.741	47.183	1.00	14.72
5040	CG	GLU	A	654	49.161	1.836	46.334	1.00	20.37

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5041	CD	GLU	A	654	48.933	1.601	44.836	1.00	24.97
5042	OE1	GLU	A	654	49.500	2.372	44.042	1.00	26.69
5043	OE2	GLU	A	654	48.171	0.641	44.432	1.00	23.80
5044	C	GLU	A	654	47.221	1.985	48.952	1.00	12.33
5045	O	GLU	A	654	47.481	3.173	49.049	1.00	11.75
5046	N	TYR	A	655	45.983	1.499	49.064	1.00	13.37
5047	CA	TYR	A	655	44.802	2.358	49.119	1.00	13.96
5048	CB	TYR	A	655	43.631	1.697	48.398	1.00	14.70
5049	CG	TYR	A	655	43.817	1.535	46.927	1.00	14.36
5050	CD1	TYR	A	655	44.450	2.463	46.201	1.00	15.50
5051	CE1	TYR	A	655	44.614	2.301	44.817	1.00	15.29
5052	CZ	TYR	A	655	44.179	1.167	44.167	1.00	15.82
5053	OH	TYR	A	655	44.393	1.009	42.775	1.00	12.80
5054	CE2	TYR	A	655	43.533	0.227	44.915	1.00	15.17
5055	CD2	TYR	A	655	43.365	0.412	46.278	1.00	15.34
5056	C	TYR	A	655	44.370	2.704	50.524	1.00	13.82
5057	O	TYR	A	655	43.524	3.544	50.698	1.00	16.65
5058	N	TYR	A	656	44.990	2.107	51.526	1.00	14.46
5059	CA	TYR	A	656	44.550	2.239	52.927	1.00	12.77
5060	CB	TYR	A	656	44.415	0.877	53.593	1.00	11.13
5061	CG	TYR	A	656	43.466	0.949	54.730	1.00	16.75
5062	CD1	TYR	A	656	42.263	1.774	54.645	1.00	13.82
5063	CE1	TYR	A	656	41.365	1.862	55.719	1.00	15.50
5064	CZ	TYR	A	656	41.641	1.199	56.922	1.00	17.53
5065	OH	TYR	A	656	40.741	1.291	57.953	1.00	18.27
5066	CE2	TYR	A	656	42.781	0.385	57.022	1.00	16.53
5067	CD2	TYR	A	656	43.709	0.266	55.918	1.00	12.60
5068	C	TYR	A	656	45.425	3.129	53.748	1.00	12.41
5069	O	TYR	A	656	46.593	3.444	53.338	1.00	12.62
5070	N	ALA	A	657	44.864	3.606	54.859	1.00	13.20
5071	CA	ALA	A	657	45.628	4.467	55.775	1.00	12.38
5072	CB	ALA	A	657	44.858	4.750	57.063	1.00	12.40
5073	C	ALA	A	657	46.963	3.867	56.134	1.00	13.70
5074	O	ALA	A	657	47.071	2.614	56.419	1.00	13.93
5075	N	SER	A	658	47.941	4.797	56.208	1.00	13.26
5076	CA	SER	A	658	49.338	4.559	56.575	1.00	13.48
5077	CB	SER	A	658	50.134	5.888	56.601	1.00	13.29
5078	OG	SER	A	658	49.445	6.923	57.300	1.00	15.07
5079	C	SER	A	658	49.456	3.915	57.950	1.00	14.15
5080	O	SER	A	658	50.037	2.853	58.122	1.00	12.14
5081	N	VAL	A	659	48.881	4.578	58.927	1.00	14.41
5082	CA	VAL	A	659	49.032	4.145	60.269	1.00	14.99
5083	CB	VAL	A	659	48.153	4.924	61.175	1.00	14.50
5084	CG1	VAL	A	659	48.114	4.245	62.508	1.00	15.32
5085	CG2	VAL	A	659	48.714	6.349	61.308	1.00	16.72
5086	C	VAL	A	659	48.649	2.714	60.329	1.00	14.14
5087	O	VAL	A	659	49.408	1.886	60.768	1.00	15.96
5088	N	TYR	A	660	47.499	2.370	59.836	1.00	12.83
5089	CA	TYR	A	660	47.157	0.989	59.951	1.00	12.37
5090	CB	TYR	A	660	45.779	0.825	59.472	1.00	11.68
5091	CG	TYR	A	660	45.222	-0.520	59.550	1.00	11.72

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5092	CD1	TYR	A	660	44.262	-0.818	60.512	1.00	16.15
5093	CE1	TYR	A	660	43.685	-2.065	60.567	1.00	16.29
5094	CZ	TYR	A	660	44.102	-3.073	59.646	1.00	17.90
5095	OH	TYR	A	660	43.567	-4.334	59.731	1.00	21.06
5096	CE2	TYR	A	660	45.020	-2.772	58.652	1.00	16.13
5097	CD2	TYR	A	660	45.548	-1.474	58.595	1.00	13.55
5098	C	TYR	A	660	48.108	0.111	59.153	1.00	12.38
5099	O	TYR	A	660	48.531	-0.865	59.585	1.00	12.74
5100	N	THR	A	661	48.411	0.468	57.944	1.00	13.18
5101	CA	THR	A	661	48.935	-0.501	57.012	1.00	13.65
5102	CB	THR	A	661	48.716	0.043	55.570	1.00	14.57
5103	OG1	THR	A	661	47.355	0.530	55.374	1.00	13.58
5104	CG2	THR	A	661	48.876	-1.093	54.586	1.00	14.25
5105	C	THR	A	661	50.434	-0.765	57.197	1.00	13.99
5106	O	THR	A	661	50.911	-1.929	57.126	1.00	15.09
5107	N	GLU	A	662	51.159	0.322	57.411	1.00	13.87
5108	CA	GLU	A	662	52.587	0.294	57.458	1.00	15.23
5109	CB	GLU	A	662	53.192	1.716	57.496	1.00	14.05
5110	CG	GLU	A	662	52.739	2.597	56.371	1.00	13.13
5111	CD	GLU	A	662	53.419	3.926	56.365	1.00	14.86
5112	OE1	GLU	A	662	53.085	4.706	55.455	1.00	14.11
5113	OE2	GLU	A	662	54.290	4.172	57.232	1.00	14.08
5114	C	GLU	A	662	52.901	-0.489	58.728	1.00	16.61
5115	O	GLU	A	662	53.838	-1.211	58.730	1.00	17.72
5116	N	ARG	A	663	52.083	-0.338	59.783	1.00	18.16
5117	CA	ARG	A	663	52.072	-1.225	60.948	1.00	18.30
5118	CB	ARG	A	663	50.668	-1.267	61.603	1.00	19.06
5119	CG	ARG	A	663	50.634	-1.995	63.011	1.00	15.86
5120	CD	ARG	A	663	50.439	-1.072	64.163	1.00	12.31
5121	NE	ARG	A	663	50.312	-1.857	65.362	1.00	12.66
5122	CZ	ARG	A	663	50.609	-1.480	66.630	1.00	14.73
5123	NH1	ARG	A	663	50.411	-2.364	67.603	1.00	15.66
5124	NH2	ARG	A	663	51.010	-0.247	66.954	1.00	12.55
5125	C	ARG	A	663	52.330	-2.647	60.630	1.00	17.86
5126	O	ARG	A	663	53.120	-3.258	61.310	1.00	18.38
5127	N	PHE	A	664	51.575	-3.215	59.692	1.00	17.50
5128	CA	PHE	A	664	51.641	-4.681	59.513	1.00	17.48
5129	CB	PHE	A	664	50.249	-5.330	59.520	1.00	17.24
5130	CG	PHE	A	664	49.330	-4.786	60.575	1.00	16.20
5131	CD1	PHE	A	664	48.524	-3.700	60.313	1.00	11.35
5132	CE1	PHE	A	664	47.628	-3.189	61.294	1.00	11.47
5133	CZ	PHE	A	664	47.584	-3.665	62.524	1.00	9.54
5134	CE2	PHE	A	664	48.423	-4.769	62.842	1.00	16.69
5135	CD2	PHE	A	664	49.304	-5.329	61.849	1.00	14.82
5136	C	PHE	A	664	52.274	-5.053	58.229	1.00	17.92
5137	O	PHE	A	664	52.549	-6.232	58.014	1.00	18.40
5138	N	MET	A	665	52.460	-4.060	57.360	1.00	17.80
5139	CA	MET	A	665	52.864	-4.320	55.973	1.00	18.43
5140	CB	MET	A	665	51.871	-3.657	54.989	1.00	18.20
5141	CG	MET	A	665	50.791	-4.550	54.387	1.00	17.96
5142	SD	MET	A	665	51.167	-6.347	53.990	1.00	19.11

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5143	CE	MET	A	665	52.076	-6.485	52.482	1.00	19.73
5144	C	MET	A	665	54.282	-3.815	55.715	1.00	18.61
5145	O	MET	A	665	54.908	-4.165	54.739	1.00	18.82
5146	N	GLY	A	666	54.795	-3.003	56.622	1.00	19.28
5147	CA	GLY	A	666	56.025	-2.249	56.394	1.00	19.24
5148	C	GLY	A	666	55.762	-1.144	55.393	1.00	20.27
5149	O	GLY	A	666	54.623	-0.671	55.203	1.00	20.26
5150	N	LEU	A	667	56.820	-0.762	54.702	1.00	21.14
5151	CA	LEU	A	667	56.724	0.227	53.635	1.00	21.64
5152	CB	LEU	A	667	57.877	1.231	53.761	1.00	22.58
5153	CG	LEU	A	667	57.109	2.331	54.520	1.00	25.34
5154	CD1	LEU	A	667	57.245	2.158	56.079	1.00	24.99
5155	CD2	LEU	A	667	57.482	3.727	53.964	1.00	28.23
5156	C	LEU	A	667	56.543	-0.314	52.194	1.00	20.84
5157	O	LEU	A	667	56.946	-1.456	51.862	1.00	20.63
5158	N	PRO	A	668	55.832	0.469	51.374	1.00	20.02
5159	CA	PRO	A	668	55.675	0.157	49.963	1.00	19.20
5160	CB	PRO	A	668	54.330	0.786	49.647	1.00	19.42
5161	CG	PRO	A	668	54.165	1.869	50.620	1.00	18.98
5162	CD	PRO	A	668	55.054	1.638	51.771	1.00	19.05
5163	C	PRO	A	668	56.796	0.695	49.032	1.00	19.54
5164	O	PRO	A	668	56.413	1.233	48.004	1.00	19.78
5165	N	THR	A	669	58.095	0.522	49.349	1.00	19.35
5166	CA	THR	A	669	59.257	0.860	48.450	1.00	20.02
5167	CB	THR	A	669	60.283	1.765	49.127	1.00	20.07
5168	OG1	THR	A	669	61.057	0.949	50.021	1.00	21.88
5169	CG2	THR	A	669	59.655	2.794	50.022	1.00	18.32
5170	C	THR	A	669	60.074	-0.373	48.050	1.00	20.18
5171	O	THR	A	669	59.917	-1.418	48.651	1.00	19.99
5172	N	LYS	A	670	60.944	-0.233	47.052	1.00	20.37
5173	CA	LYS	A	670	61.943	-1.309	46.730	1.00	21.52
5174	CB	LYS	A	670	63.145	-0.790	45.820	1.00	21.70
5175	CG	LYS	A	670	63.285	-1.347	44.288	1.00	23.58
5176	CD	LYS	A	670	62.463	-0.476	43.177	1.00	24.86
5177	CE	LYS	A	670	61.668	-1.293	42.070	1.00	25.67
5178	NZ	LYS	A	670	60.141	-1.101	42.036	1.00	21.60
5179	C	LYS	A	670	62.506	-1.927	48.036	1.00	21.12
5180	O	LYS	A	670	62.280	-3.092	48.307	1.00	21.00
5181	N	ASP	A	671	63.194	-1.097	48.835	1.00	20.86
5182	CA	ASP	A	671	63.955	-1.537	50.019	1.00	20.94
5183	CB	ASP	A	671	64.882	-0.415	50.621	1.00	21.34
5184	CG	ASP	A	671	64.158	0.988	50.897	1.00	22.80
5185	OD1	ASP	A	671	64.934	1.965	51.106	1.00	20.89
5186	OD2	ASP	A	671	62.912	1.245	50.943	1.00	19.66
5187	C	ASP	A	671	63.138	-2.206	51.129	1.00	20.79
5188	O	ASP	A	671	63.746	-2.909	51.936	1.00	19.83
5189	N	ASP	A	672	61.801	-2.018	51.170	1.00	20.42
5190	CA	ASP	A	672	60.962	-2.707	52.177	1.00	20.73
5191	CB	ASP	A	672	60.046	-1.741	52.995	1.00	20.26
5192	CG	ASP	A	672	60.246	-1.897	54.492	1.00	21.77
5193	OD1	ASP	A	672	59.383	-2.480	55.169	1.00	24.71

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5194	OD2	ASP	A	672	61.285	-1.528	55.091	1.00	20.09
5195	C	ASP	A	672	60.162	-3.852	51.570	1.00	20.41
5196	O	ASP	A	672	60.731	-4.866	51.256	1.00	20.92
5197	N	ASN	A	673	58.866	-3.665	51.390	1.00	19.65
5198	CA	ASN	A	673	57.918	-4.711	51.063	1.00	19.83
5199	CB	ASN	A	673	57.068	-4.917	52.319	1.00	19.79
5200	CG	ASN	A	673	56.404	-6.303	52.406	1.00	18.17
5201	OD1	ASN	A	673	55.364	-6.429	53.008	1.00	15.25
5202	ND2	ASN	A	673	57.057	-7.339	51.882	1.00	18.68
5203	C	ASN	A	673	56.992	-4.282	49.876	1.00	20.61
5204	O	ASN	A	673	55.987	-4.962	49.565	1.00	21.11
5205	N	LEU	A	674	57.305	-3.137	49.241	1.00	20.75
5206	CA	LEU	A	674	56.633	-2.722	48.030	1.00	19.68
5207	CB	LEU	A	674	57.588	-2.012	47.035	1.00	19.48
5208	CG	LEU	A	674	57.316	-2.069	45.493	1.00	20.84
5209	CD1	LEU	A	674	57.310	-0.717	44.843	1.00	20.53
5210	CD2	LEU	A	674	58.324	-2.995	44.706	1.00	22.57
5211	C	LEU	A	674	56.083	-3.965	47.367	1.00	19.73
5212	O	LEU	A	674	54.890	-4.026	47.040	1.00	19.03
5213	N	GLU	A	675	56.950	-4.947	47.118	1.00	19.51
5214	CA	GLU	A	675	56.558	-5.962	46.175	1.00	19.88
5215	CB	GLU	A	675	57.751	-6.740	45.659	1.00	20.33
5216	CG	GLU	A	675	58.075	-8.016	46.425	1.00	25.27
5217	CD	GLU	A	675	57.834	-9.263	45.578	1.00	29.29
5218	OE1	GLU	A	675	56.616	-9.536	45.238	1.00	30.87
5219	OE2	GLU	A	675	58.872	-9.933	45.259	1.00	28.96
5220	C	GLU	A	675	55.398	-6.831	46.709	1.00	19.28
5221	O	GLU	A	675	54.573	-7.293	45.915	1.00	19.12
5222	N	HIS	A	676	55.303	-7.040	48.020	1.00	17.80
5223	CA	HIS	A	676	54.118	-7.733	48.554	1.00	16.44
5224	CB	HIS	A	676	54.437	-8.398	49.865	1.00	15.43
5225	CG	HIS	A	676	53.377	-9.350	50.279	1.00	14.16
5226	ND1	HIS	A	676	52.809	-9.354	51.532	1.00	11.86
5227	CE1	HIS	A	676	51.885	-10.293	51.572	1.00	12.87
5228	NE2	HIS	A	676	51.822	-10.881	50.394	1.00	13.25
5229	CD2	HIS	A	676	52.721	-10.285	49.559	1.00	11.80
5230	C	HIS	A	676	52.835	-6.910	48.773	1.00	16.33
5231	O	HIS	A	676	51.699	-7.475	48.882	1.00	16.31
5232	N	TYR	A	677	52.989	-5.593	48.890	1.00	16.09
5233	CA	TYR	A	677	51.862	-4.734	48.657	1.00	15.55
5234	CB	TYR	A	677	52.260	-3.291	48.647	1.00	16.22
5235	CG	TYR	A	677	52.353	-2.598	49.965	1.00	16.37
5236	CD1	TYR	A	677	51.440	-1.618	50.334	1.00	16.99
5237	CE1	TYR	A	677	51.544	-0.973	51.512	1.00	16.41
5238	CZ	TYR	A	677	52.593	-1.276	52.325	1.00	16.94
5239	OH	TYR	A	677	52.803	-0.693	53.553	1.00	19.21
5240	CE2	TYR	A	677	53.481	-2.214	51.947	1.00	17.68
5241	CD2	TYR	A	677	53.363	-2.843	50.772	1.00	14.87
5242	C	TYR	A	677	51.362	-5.078	47.266	1.00	15.77
5243	O	TYR	A	677	50.134	-5.250	47.078	1.00	15.64
5244	N	LYS	A	678	52.282	-5.212	46.298	1.00	15.47

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5245	CA	LYS	A	678	51.905	-5.488	44.886	1.00	16.35
5246	CB	LYS	A	678	53.098	-5.328	43.933	1.00	15.28
5247	CG	LYS	A	678	53.813	-3.911	44.017	1.00	17.43
5248	CD	LYS	A	678	53.539	-2.915	42.818	1.00	19.65
5249	CE	LYS	A	678	52.199	-1.954	43.027	1.00	21.18
5250	NZ	LYS	A	678	52.229	-0.651	42.154	1.00	19.16
5251	C	LYS	A	678	51.177	-6.843	44.682	1.00	16.74
5252	O	LYS	A	678	50.109	-6.940	44.058	1.00	17.45
5253	N	ASN	A	679	51.699	-7.869	45.302	1.00	16.46
5254	CA	ASN	A	679	51.297	-9.240	45.043	1.00	16.67
5255	CB	ASN	A	679	52.486	-10.138	45.421	1.00	16.11
5256	CG	ASN	A	679	52.392	-11.509	44.852	1.00	17.15
5257	OD1	ASN	A	679	52.852	-11.745	43.732	1.00	20.41
5258	ND2	ASN	A	679	51.719	-12.419	45.580	1.00	14.78
5259	C	ASN	A	679	50.080	-9.672	45.849	1.00	16.59
5260	O	ASN	A	679	49.624	-10.793	45.656	1.00	17.85
5261	N	SER	A	680	49.619	-8.813	46.769	1.00	15.95
5262	CA	SER	A	680	48.494	-9.087	47.702	1.00	14.68
5263	CB	SER	A	680	48.883	-8.750	49.154	1.00	13.70
5264	OG	SER	A	680	49.261	-7.395	49.366	1.00	12.36
5265	C	SER	A	680	47.171	-8.383	47.433	1.00	15.28
5266	O	SER	A	680	46.238	-8.444	48.261	1.00	15.43
5267	N	THR	A	681	47.037	-7.716	46.300	1.00	15.60
5268	CA	THR	A	681	45.727	-7.108	45.988	1.00	14.51
5269	CB	THR	A	681	45.801	-6.210	44.745	1.00	14.00
5270	OG1	THR	A	681	46.284	-6.966	43.621	1.00	12.68
5271	CG2	THR	A	681	46.826	-5.075	44.865	1.00	13.10
5272	C	THR	A	681	44.738	-8.202	45.658	1.00	14.86
5273	O	THR	A	681	45.127	-9.371	45.335	1.00	14.85
5274	N	VAL	A	682	43.454	-7.828	45.653	1.00	14.52
5275	CA	VAL	A	682	42.429	-8.774	45.133	1.00	14.22
5276	CB	VAL	A	682	41.065	-8.644	45.864	1.00	15.41
5277	CG1	VAL	A	682	41.258	-8.138	47.284	1.00	14.21
5278	CG2	VAL	A	682	40.165	-7.790	45.128	1.00	8.07
5279	C	VAL	A	682	42.270	-8.786	43.550	1.00	15.18
5280	O	VAL	A	682	42.174	-9.885	42.953	1.00	14.44
5281	N	MET	A	683	42.243	-7.575	42.926	1.00	15.08
5282	CA	MET	A	683	42.633	-7.326	41.492	1.00	16.02
5283	CB	MET	A	683	43.361	-5.962	41.420	1.00	15.73
5284	CG	MET	A	683	42.492	-4.731	41.480	1.00	13.07
5285	SD	MET	A	683	42.062	-4.418	43.116	1.00	16.59
5286	CE	MET	A	683	43.391	-3.547	43.738	1.00	9.38
5287	C	MET	A	683	43.589	-8.378	40.791	1.00	16.74
5288	O	MET	A	683	43.341	-8.778	39.645	1.00	18.81
5289	N	ALA	A	684	44.697	-8.756	41.454	1.00	16.62
5290	CA	ALA	A	684	45.671	-9.719	40.917	1.00	16.01
5291	CB	ALA	A	684	46.910	-9.797	41.834	1.00	15.47
5292	C	ALA	A	684	45.081	-11.113	40.819	1.00	16.23
5293	O	ALA	A	684	45.678	-11.996	40.228	1.00	15.57
5294	N	ARG	A	685	43.925	-11.297	41.458	1.00	17.01
5295	CA	ARG	A	685	43.193	-12.568	41.468	1.00	16.86

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5296	CB	ARG	A	685	42.767	-12.944	42.896	1.00	17.18
5297	CG	ARG	A	685	43.793	-12.527	43.945	1.00	15.79
5298	CD	ARG	A	685	44.949	-13.450	43.999	1.00	16.70
5299	NE	ARG	A	685	44.475	-14.825	43.969	1.00	16.06
5300	CZ	ARG	A	685	45.143	-15.851	43.503	1.00	18.22
5301	NH1	ARG	A	685	44.535	-17.046	43.527	1.00	19.00
5302	NH2	ARG	A	685	46.390	-15.713	43.034	1.00	15.76
5303	C	ARG	A	685	41.961	-12.498	40.591	1.00	16.22
5304	O	ARG	A	685	41.225	-13.466	40.490	1.00	16.90
5305	N	ALA	A	686	41.731	-11.355	39.963	1.00	15.02
5306	CA	ALA	A	686	40.587	-11.188	39.026	1.00	15.08
5307	CB	ALA	A	686	40.903	-10.087	37.985	1.00	14.48
5308	C	ALA	A	686	40.172	-12.493	38.314	1.00	14.50
5309	O	ALA	A	686	39.036	-12.918	38.341	1.00	15.17
5310	N	GLU	A	687	41.125	-13.140	37.718	1.00	13.97
5311	CA	GLU	A	687	40.851	-14.308	36.918	1.00	14.92
5312	CB	GLU	A	687	42.177	-14.806	36.350	1.00	15.21
5313	CG	GLU	A	687	42.000	-16.023	35.443	1.00	19.69
5314	CD	GLU	A	687	41.361	-15.716	34.093	1.00	24.01
5315	OE1	GLU	A	687	40.674	-16.655	33.580	1.00	28.67
5316	OE2	GLU	A	687	41.591	-14.591	33.554	1.00	22.87
5317	C	GLU	A	687	40.198	-15.469	37.664	1.00	13.79
5318	O	GLU	A	687	39.494	-16.295	37.112	1.00	13.04
5319	N	TYR	A	688	40.489	-15.550	38.931	1.00	13.72
5320	CA	TYR	A	688	40.128	-16.712	39.728	1.00	13.45
5321	CB	TYR	A	688	41.061	-16.809	40.921	1.00	11.15
5322	CG	TYR	A	688	42.479	-17.236	40.560	1.00	14.68
5323	CD1	TYR	A	688	42.816	-18.612	40.449	1.00	15.99
5324	CE1	TYR	A	688	44.076	-19.000	40.147	1.00	18.97
5325	CZ	TYR	A	688	45.044	-18.062	39.928	1.00	20.84
5326	OH	TYR	A	688	46.298	-18.511	39.643	1.00	25.28
5327	CE2	TYR	A	688	44.775	-16.702	40.011	1.00	19.36
5328	CD2	TYR	A	688	43.486	-16.297	40.338	1.00	16.64
5329	C	TYR	A	688	38.665	-16.635	40.157	1.00	14.32
5330	O	TYR	A	688	38.139	-17.672	40.660	1.00	13.41
5331	N	PHE	A	689	38.068	-15.402	40.011	1.00	13.39
5332	CA	PHE	A	689	36.690	-15.207	40.213	1.00	13.96
5333	CB	PHE	A	689	36.388	-13.740	40.303	1.00	14.28
5334	CG	PHE	A	689	36.723	-13.110	41.635	1.00	12.84
5335	CD1	PHE	A	689	35.841	-13.154	42.662	1.00	11.22
5336	CE1	PHE	A	689	36.126	-12.483	43.849	1.00	13.61
5337	CZ	PHE	A	689	37.331	-11.776	43.995	1.00	12.26
5338	CE2	PHE	A	689	38.195	-11.758	42.980	1.00	11.02
5339	CD2	PHE	A	689	37.895	-12.408	41.817	1.00	12.98
5340	C	PHE	A	689	35.836	-15.821	39.109	1.00	15.41
5341	O	PHE	A	689	34.611	-15.956	39.248	1.00	15.77
5342	N	ARG	A	690	36.422	-16.234	38.003	1.00	16.82
5343	CA	ARG	A	690	35.601	-16.854	36.925	1.00	18.48
5344	CB	ARG	A	690	36.397	-17.486	35.764	1.00	18.30
5345	CG	ARG	A	690	35.497	-17.711	34.476	1.00	18.79
5346	CD	ARG	A	690	36.256	-17.853	33.195	1.00	16.44

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5347	NE	ARG	A	690	37.399	-16.947	33.256	1.00	17.70
5348	CZ	ARG	A	690	37.388	-15.663	32.873	1.00	14.82
5349	NH1	ARG	A	690	38.499	-14.953	32.992	1.00	12.02
5350	NH2	ARG	A	690	36.291	-15.082	32.383	1.00	11.35
5351	C	ARG	A	690	34.559	-17.840	37.362	1.00	19.39
5352	O	ARG	A	690	33.410	-17.619	37.022	1.00	20.94
5353	N	ASN	A	691	34.896	-18.898	38.078	1.00	18.88
5354	CA	ASN	A	691	33.872	-19.914	38.322	1.00	19.47
5355	CB	ASN	A	691	34.461	-21.352	38.470	1.00	20.56
5356	CG	ASN	A	691	35.890	-21.506	37.933	1.00	21.16
5357	OD1	ASN	A	691	36.100	-21.449	36.729	1.00	23.33
5358	ND2	ASN	A	691	36.857	-21.727	38.833	1.00	20.88
5359	C	ASN	A	691	33.094	-19.668	39.607	1.00	19.46
5360	O	ASN	A	691	32.895	-20.631	40.355	1.00	18.66
5361	N	VAL	A	692	32.689	-18.419	39.911	1.00	18.60
5362	CA	VAL	A	692	32.033	-18.136	41.192	1.00	17.57
5363	CB	VAL	A	692	33.017	-17.933	42.396	1.00	17.76
5364	CG1	VAL	A	692	34.046	-19.146	42.560	1.00	17.94
5365	CG2	VAL	A	692	33.729	-16.640	42.371	1.00	12.25
5366	C	VAL	A	692	31.150	-16.925	41.174	1.00	18.53
5367	O	VAL	A	692	31.397	-16.000	40.388	1.00	17.92
5368	N	ASP	A	693	30.128	-16.934	42.055	1.00	18.78
5369	CA	ASP	A	693	29.180	-15.825	42.191	1.00	18.26
5370	CB	ASP	A	693	27.825	-16.242	42.735	1.00	19.17
5371	CG	ASP	A	693	27.166	-17.298	41.931	1.00	22.83
5372	OD1	ASP	A	693	25.954	-17.133	41.676	1.00	27.12
5373	OD2	ASP	A	693	27.752	-18.301	41.505	1.00	22.95
5374	C	ASP	A	693	29.795	-14.978	43.246	1.00	17.23
5375	O	ASP	A	693	30.021	-15.400	44.357	1.00	17.56
5376	N	TYR	A	694	30.108	-13.774	42.872	1.00	16.10
5377	CA	TYR	A	694	30.645	-12.835	43.801	1.00	15.46
5378	CB	TYR	A	694	31.984	-12.525	43.331	1.00	15.42
5379	CG	TYR	A	694	32.708	-11.462	44.040	1.00	15.98
5380	CD1	TYR	A	694	33.130	-10.384	43.341	1.00	11.85
5381	CE1	TYR	A	694	33.874	-9.507	43.891	1.00	15.96
5382	CZ	TYR	A	694	34.232	-9.622	45.209	1.00	19.01
5383	OH	TYR	A	694	34.994	-8.579	45.721	1.00	20.32
5384	CE2	TYR	A	694	33.836	-10.669	45.947	1.00	11.47
5385	CD2	TYR	A	694	33.105	-11.611	45.367	1.00	13.46
5386	C	TYR	A	694	29.680	-11.631	43.842	1.00	14.23
5387	O	TYR	A	694	28.943	-11.422	42.927	1.00	13.08
5388	N	LEU	A	695	29.586	-10.999	45.008	1.00	13.69
5389	CA	LEU	A	695	28.716	-9.897	45.202	1.00	13.77
5390	CB	LEU	A	695	27.477	-10.280	46.026	1.00	12.32
5391	CG	LEU	A	695	26.809	-9.049	46.716	1.00	14.36
5392	CD1	LEU	A	695	26.521	-7.845	45.725	1.00	14.89
5393	CD2	LEU	A	695	25.537	-9.447	47.448	1.00	8.35
5394	C	LEU	A	695	29.594	-8.899	45.911	1.00	12.88
5395	O	LEU	A	695	30.292	-9.328	46.797	1.00	12.66
5396	N	LEU	A	696	29.503	-7.607	45.580	1.00	11.18
5397	CA	LEU	A	696	30.498	-6.594	45.956	1.00	10.09

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5398	CB	LEU	A	696	31.515	-6.457	44.828	1.00	10.43
5399	CG	LEU	A	696	32.532	-5.301	44.908	1.00	13.81
5400	CD1	LEU	A	696	33.746	-5.559	45.939	1.00	10.85
5401	CD2	LEU	A	696	33.085	-4.953	43.490	1.00	13.60
5402	C	LEU	A	696	29.890	-5.207	46.216	1.00	10.83
5403	O	LEU	A	696	29.227	-4.613	45.375	1.00	6.71
5404	N	ILE	A	697	30.086	-4.728	47.445	1.00	9.83
5405	CA	ILE	A	697	29.216	-3.735	47.962	1.00	9.04
5406	CB	ILE	A	697	28.311	-4.327	48.979	1.00	7.64
5407	CG1	ILE	A	697	27.602	-5.550	48.356	1.00	11.23
5408	CD1	ILE	A	697	26.444	-6.199	49.138	1.00	5.18
5409	CG2	ILE	A	697	27.288	-3.361	49.281	1.00	5.58
5410	C	ILE	A	697	30.071	-2.633	48.512	1.00	9.70
5411	O	ILE	A	697	31.156	-2.927	49.009	1.00	8.15
5412	N	HIS	A	698	29.614	-1.368	48.321	1.00	7.78
5413	CA	HIS	A	698	30.325	-0.249	48.830	1.00	7.89
5414	CB	HIS	A	698	31.526	-0.086	47.996	1.00	7.26
5415	CG	HIS	A	698	32.746	0.239	48.782	1.00	9.51
5416	ND1	HIS	A	698	32.697	1.037	49.895	1.00	12.56
5417	CE1	HIS	A	698	33.921	1.191	50.364	1.00	12.40
5418	NE2	HIS	A	698	34.762	0.575	49.563	1.00	12.78
5419	CD2	HIS	A	698	34.049	-0.039	48.567	1.00	3.75
5420	C	HIS	A	698	29.604	1.094	48.822	1.00	8.89
5421	O	HIS	A	698	28.882	1.412	47.894	1.00	8.15
5422	N	GLY	A	699	29.849	1.887	49.835	1.00	8.40
5423	CA	GLY	A	699	29.172	3.125	49.992	1.00	11.19
5424	C	GLY	A	699	30.064	4.167	49.337	1.00	12.92
5425	O	GLY	A	699	31.308	4.160	49.489	1.00	14.21
5426	N	THR	A	700	29.426	5.102	48.647	1.00	12.30
5427	CA	THR	A	700	30.155	6.050	47.825	1.00	14.28
5428	CB	THR	A	700	29.266	6.626	46.670	1.00	12.71
5429	OG1	THR	A	700	28.305	7.662	47.164	1.00	12.53
5430	CG2	THR	A	700	28.494	5.415	46.067	1.00	9.43
5431	C	THR	A	700	30.714	7.160	48.654	1.00	15.15
5432	O	THR	A	700	31.365	7.984	48.116	1.00	18.16
5433	N	ALA	A	701	30.470	7.185	49.944	1.00	14.66
5434	CA	ALA	A	701	30.966	8.255	50.810	1.00	14.57
5435	CB	ALA	A	701	29.735	8.981	51.415	1.00	13.61
5436	C	ALA	A	701	31.811	7.681	51.946	1.00	14.14
5437	O	ALA	A	701	31.886	8.299	53.001	1.00	15.40
5438	N	ASP	A	702	32.333	6.468	51.733	1.00	13.80
5439	CA	ASP	A	702	33.171	5.759	52.681	1.00	13.47
5440	CB	ASP	A	702	33.375	4.321	52.184	1.00	11.93
5441	CG	ASP	A	702	33.875	3.407	53.248	1.00	13.44
5442	OD1	ASP	A	702	33.587	2.185	53.224	1.00	18.73
5443	OD2	ASP	A	702	34.547	3.833	54.200	1.00	17.27
5444	C	ASP	A	702	34.507	6.494	52.864	1.00	14.29
5445	O	ASP	A	702	35.380	6.337	51.987	1.00	15.56
5446	N	ASP	A	703	34.653	7.332	53.928	1.00	13.22
5447	CA	ASP	A	703	35.923	8.049	54.157	1.00	12.39
5448	CB	ASP	A	703	35.785	9.134	55.165	1.00	12.47

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5449	CG	ASP	A	703	35.205	8.645	56.477	1.00	14.00
5450	OD1	ASP	A	703	34.013	8.285	56.510	1.00	18.49
5451	OD2	ASP	A	703	35.871	8.536	57.548	1.00	18.30
5452	C	ASP	A	703	37.023	7.079	54.656	1.00	12.31
5453	O	ASP	A	703	38.235	7.447	54.740	1.00	10.90
5454	N	ASN	A	704	36.653	5.823	54.902	1.00	10.75
5455	CA	ASN	A	704	37.529	5.003	55.647	1.00	12.89
5456	CB	ASN	A	704	36.778	4.222	56.706	1.00	13.16
5457	CG	ASN	A	704	37.674	3.481	57.658	1.00	17.44
5458	OD1	ASN	A	704	37.196	2.585	58.394	1.00	24.26
5459	ND2	ASN	A	704	38.969	3.832	57.687	1.00	20.62
5460	C	ASN	A	704	38.197	4.116	54.700	1.00	13.05
5461	O	ASN	A	704	39.383	4.287	54.476	1.00	13.10
5462	N	VAL	A	705	37.465	3.132	54.186	1.00	13.05
5463	CA	VAL	A	705	37.934	2.347	53.039	1.00	12.69
5464	CB	VAL	A	705	37.575	0.899	53.165	1.00	13.14
5465	CG1	VAL	A	705	38.183	0.135	52.025	1.00	8.14
5466	CG2	VAL	A	705	38.183	0.417	54.413	1.00	11.21
5467	C	VAL	A	705	37.265	2.905	51.831	1.00	12.57
5468	O	VAL	A	705	36.037	2.784	51.741	1.00	13.74
5469	N	HIS	A	706	38.032	3.529	50.951	1.00	10.47
5470	CA	HIS	A	706	37.406	4.385	50.002	1.00	11.96
5471	CB	HIS	A	706	38.292	5.543	49.395	1.00	11.08
5472	CG	HIS	A	706	39.168	6.177	50.399	1.00	11.21
5473	ND1	HIS	A	706	38.740	6.432	51.667	1.00	11.21
5474	CE1	HIS	A	706	39.739	6.917	52.386	1.00	10.47
5475	NE2	HIS	A	706	40.802	6.991	51.613	1.00	11.40
5476	CD2	HIS	A	706	40.477	6.521	50.370	1.00	10.91
5477	C	HIS	A	706	36.847	3.447	48.968	1.00	13.10
5478	O	HIS	A	706	37.417	2.419	48.729	1.00	13.77
5479	N	PHE	A	707	35.662	3.804	48.471	1.00	12.81
5480	CA	PHE	A	707	35.090	3.251	47.267	1.00	14.44
5481	CB	PHE	A	707	34.060	4.228	46.697	1.00	12.69
5482	CG	PHE	A	707	33.213	3.624	45.682	1.00	14.77
5483	CD1	PHE	A	707	32.060	2.964	46.050	1.00	17.50
5484	CE1	PHE	A	707	31.271	2.374	45.054	1.00	15.68
5485	CZ	PHE	A	707	31.656	2.453	43.748	1.00	13.26
5486	CE2	PHE	A	707	32.832	3.152	43.407	1.00	13.47
5487	CD2	PHE	A	707	33.579	3.662	44.354	1.00	12.42
5488	C	PHE	A	707	36.109	2.879	46.212	1.00	15.22
5489	O	PHE	A	707	36.120	1.716	45.700	1.00	18.31
5490	N	GLN	A	708	36.994	3.824	45.892	1.00	13.58
5491	CA	GLN	A	708	38.195	3.494	45.106	1.00	12.72
5492	CB	GLN	A	708	39.340	4.457	45.489	1.00	12.57
5493	CG	GLN	A	708	40.720	3.844	45.341	1.00	12.08
5494	CD	GLN	A	708	41.872	4.771	45.698	1.00	15.26
5495	OE1	GLN	A	708	42.527	5.361	44.834	1.00	12.65
5496	NE2	GLN	A	708	42.149	4.851	46.969	1.00	10.23
5497	C	GLN	A	708	38.670	1.989	45.206	1.00	12.41
5498	O	GLN	A	708	39.284	1.443	44.255	1.00	11.60
5499	N	ASN	A	709	38.516	1.393	46.385	1.00	11.40

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5500	CA	ASN	A	709	38.915	-0.037	46.653	1.00	11.20
5501	CB	ASN	A	709	38.815	-0.384	48.119	1.00	9.23
5502	CG	ASN	A	709	40.059	-0.023	48.917	1.00	11.52
5503	OD1	ASN	A	709	40.061	0.987	49.542	1.00	13.05
5504	ND2	ASN	A	709	41.112	-0.872	48.921	1.00	12.97
5505	C	ASN	A	709	38.044	-1.032	45.910	1.00	11.99
5506	O	ASN	A	709	38.561	-1.830	45.197	1.00	13.11
5507	N	SER	A	710	36.714	-0.953	46.050	1.00	11.46
5508	CA	SER	A	710	35.838	-1.797	45.231	1.00	11.12
5509	CB	SER	A	710	34.416	-1.756	45.738	1.00	8.01
5510	OG	SER	A	710	34.449	-2.349	46.983	1.00	7.75
5511	C	SER	A	710	35.808	-1.458	43.781	1.00	11.50
5512	O	SER	A	710	35.622	-2.358	42.949	1.00	13.58
5513	N	ALA	A	711	35.838	-0.153	43.470	1.00	10.70
5514	CA	ALA	A	711	36.002	0.321	42.106	1.00	9.83
5515	CB	ALA	A	711	36.433	1.814	42.073	1.00	9.70
5516	C	ALA	A	711	37.028	-0.392	41.328	1.00	9.51
5517	O	ALA	A	711	36.893	-0.524	40.129	1.00	9.24
5518	N	GLN	A	712	38.105	-0.761	41.979	1.00	9.88
5519	CA	GLN	A	712	39.282	-1.256	41.302	1.00	10.15
5520	CB	GLN	A	712	40.575	-0.896	42.027	1.00	10.85
5521	CG	GLN	A	712	40.801	0.655	42.041	1.00	10.95
5522	CD	GLN	A	712	41.424	1.145	40.799	1.00	15.40
5523	OE1	GLN	A	712	41.464	0.375	39.869	1.00	17.38
5524	NE2	GLN	A	712	41.795	2.486	40.717	1.00	13.72
5525	C	GLN	A	712	39.150	-2.682	41.213	1.00	9.17
5526	O	GLN	A	712	39.561	-3.250	40.237	1.00	9.78
5527	N	ILE	A	713	38.548	-3.298	42.198	1.00	9.00
5528	CA	ILE	A	713	38.180	-4.689	42.024	1.00	8.01
5529	CB	ILE	A	713	37.516	-5.268	43.259	1.00	8.16
5530	CG1	ILE	A	713	38.496	-5.277	44.410	1.00	2.00
5531	CD1	ILE	A	713	37.872	-5.647	45.730	1.00	2.00
5532	CG2	ILE	A	713	36.936	-6.690	42.909	1.00	8.66
5533	C	ILE	A	713	37.201	-4.787	40.833	1.00	8.38
5534	O	ILE	A	713	37.327	-5.787	39.970	1.00	8.38
5535	N	ALA	A	714	36.295	-3.775	40.722	1.00	6.85
5536	CA	ALA	A	714	35.234	-3.885	39.739	1.00	7.18
5537	CB	ALA	A	714	34.209	-2.981	39.984	1.00	7.01
5538	C	ALA	A	714	35.890	-3.675	38.371	1.00	8.22
5539	O	ALA	A	714	35.730	-4.507	37.422	1.00	7.11
5540	N	LYS	A	715	36.765	-2.668	38.324	1.00	8.19
5541	CA	LYS	A	715	37.539	-2.473	37.174	1.00	8.72
5542	CB	LYS	A	715	38.616	-1.506	37.424	1.00	10.03
5543	CG	LYS	A	715	39.406	-1.096	36.111	1.00	13.17
5544	CD	LYS	A	715	39.799	0.412	36.243	1.00	22.45
5545	CE	LYS	A	715	41.263	0.607	36.803	1.00	28.28
5546	NZ	LYS	A	715	41.455	1.998	37.481	1.00	34.52
5547	C	LYS	A	715	38.204	-3.687	36.708	1.00	9.33
5548	O	LYS	A	715	38.302	-3.871	35.510	1.00	9.43
5549	N	ALA	A	716	38.772	-4.470	37.625	1.00	11.28
5550	CA	ALA	A	716	39.682	-5.554	37.204	1.00	11.96

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5551	CB	ALA	A	716	40.545	-6.191	38.381	1.00	12.21
5552	C	ALA	A	716	38.803	-6.576	36.694	1.00	11.82
5553	O	ALA	A	716	39.076	-7.142	35.677	1.00	13.26
5554	N	LEU	A	717	37.750	-6.855	37.448	1.00	11.94
5555	CA	LEU	A	717	36.871	-7.953	37.092	1.00	11.26
5556	CB	LEU	A	717	35.781	-8.103	38.141	1.00	10.83
5557	CG	LEU	A	717	36.190	-8.897	39.371	1.00	10.48
5558	CD1	LEU	A	717	34.987	-9.235	40.185	1.00	13.81
5559	CD2	LEU	A	717	36.873	-10.172	39.039	1.00	11.22
5560	C	LEU	A	717	36.323	-7.813	35.654	1.00	11.71
5561	O	LEU	A	717	36.308	-8.788	34.883	1.00	11.88
5562	N	VAL	A	718	35.985	-6.587	35.268	1.00	11.09
5563	CA	VAL	A	718	35.616	-6.297	33.902	1.00	11.04
5564	CB	VAL	A	718	35.249	-4.765	33.750	1.00	11.51
5565	CG1	VAL	A	718	35.216	-4.357	32.266	1.00	5.45
5566	CG2	VAL	A	718	33.934	-4.375	34.619	1.00	9.91
5567	C	VAL	A	718	36.735	-6.612	32.878	1.00	11.86
5568	O	VAL	A	718	36.466	-7.169	31.837	1.00	11.53
5569	N	ASN	A	719	37.937	-6.134	33.158	1.00	11.85
5570	CA	ASN	A	719	39.116	-6.351	32.314	1.00	13.59
5571	CB	ASN	A	719	40.316	-5.513	32.849	1.00	13.25
5572	CG	ASN	A	719	40.124	-3.943	32.677	1.00	16.01
5573	OD1	ASN	A	719	40.784	-3.172	33.351	1.00	20.61
5574	ND2	ASN	A	719	39.244	-3.507	31.783	1.00	17.68
5575	C	ASN	A	719	39.460	-7.857	32.182	1.00	13.43
5576	O	ASN	A	719	40.004	-8.303	31.185	1.00	14.60
5577	N	ALA	A	720	39.106	-8.640	33.187	1.00	13.79
5578	CA	ALA	A	720	39.302	-10.088	33.135	1.00	13.30
5579	CB	ALA	A	720	39.422	-10.636	34.543	1.00	12.30
5580	C	ALA	A	720	38.150	-10.796	32.432	1.00	12.73
5581	O	ALA	A	720	38.169	-12.035	32.249	1.00	11.46
5582	N	GLN	A	721	37.109	-10.015	32.129	1.00	11.98
5583	CA	GLN	A	721	35.844	-10.533	31.562	1.00	11.52
5584	CB	GLN	A	721	36.113	-11.173	30.196	1.00	11.69
5585	CG	GLN	A	721	35.951	-10.264	29.051	1.00	12.47
5586	CD	GLN	A	721	36.912	-10.620	27.998	1.00	16.24
5587	OE1	GLN	A	721	36.695	-11.548	27.259	1.00	17.81
5588	NE2	GLN	A	721	38.026	-9.930	27.969	1.00	19.88
5589	C	GLN	A	721	35.090	-11.526	32.453	1.00	10.34
5590	O	GLN	A	721	34.673	-12.607	32.004	1.00	8.99
5591	N	VAL	A	722	34.930	-11.142	33.711	1.00	10.00
5592	CA	VAL	A	722	34.385	-12.023	34.708	1.00	9.80
5593	CB	VAL	A	722	35.391	-12.196	35.890	1.00	10.41
5594	CG1	VAL	A	722	34.678	-12.818	37.159	1.00	9.87
5595	CG2	VAL	A	722	36.564	-13.068	35.506	1.00	3.45
5596	C	VAL	A	722	33.088	-11.458	35.216	1.00	10.92
5597	O	VAL	A	722	33.085	-10.326	35.639	1.00	10.86
5598	N	ASP	A	723	31.977	-12.204	35.147	1.00	11.20
5599	CA	ASP	A	723	30.697	-11.624	35.646	1.00	11.53
5600	CB	ASP	A	723	29.426	-12.407	35.214	1.00	11.01
5601	CG	ASP	A	723	28.111	-11.581	35.455	1.00	12.44

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5602	OD1	ASP	A	723	28.198	-10.333	35.322	1.00	14.36
5603	OD2	ASP	A	723	26.973	-12.075	35.799	1.00	12.85
5604	C	ASP	A	723	30.709	-11.514	37.178	1.00	11.62
5605	O	ASP	A	723	31.323	-12.309	37.851	1.00	13.04
5606	N	PHE	A	724	30.048	-10.509	37.725	1.00	11.67
5607	CA	PHE	A	724	29.851	-10.434	39.167	1.00	10.16
5608	CB	PHE	A	724	31.109	-9.905	39.898	1.00	9.56
5609	CG	PHE	A	724	31.406	-8.453	39.666	1.00	7.10
5610	CD1	PHE	A	724	32.052	-8.048	38.514	1.00	8.13
5611	CE1	PHE	A	724	32.336	-6.672	38.288	1.00	10.58
5612	CZ	PHE	A	724	31.958	-5.700	39.174	1.00	7.94
5613	CE2	PHE	A	724	31.325	-6.104	40.329	1.00	9.52
5614	CD2	PHE	A	724	31.028	-7.508	40.564	1.00	4.99
5615	C	PHE	A	724	28.660	-9.571	39.447	1.00	10.31
5616	O	PHE	A	724	28.156	-8.964	38.578	1.00	10.92
5617	N	GLN	A	725	28.230	-9.525	40.690	1.00	11.04
5618	CA	GLN	A	725	27.044	-8.810	41.120	1.00	11.00
5619	CB	GLN	A	725	26.089	-9.723	41.846	1.00	9.85
5620	CG	GLN	A	725	25.736	-10.987	41.095	1.00	13.89
5621	CD	GLN	A	725	24.474	-10.855	40.318	1.00	21.17
5622	OE1	GLN	A	725	23.497	-10.125	40.751	1.00	20.18
5623	NE2	GLN	A	725	24.469	-11.464	39.117	1.00	18.83
5624	C	GLN	A	725	27.587	-7.755	42.015	1.00	10.71
5625	O	GLN	A	725	28.563	-7.972	42.671	1.00	11.00
5626	N	ALA	A	726	26.968	-6.593	41.993	1.00	11.17
5627	CA	ALA	A	726	27.543	-5.413	42.549	1.00	11.20
5628	CB	ALA	A	726	28.256	-4.737	41.529	1.00	11.52
5629	C	ALA	A	726	26.436	-4.535	43.092	1.00	11.70
5630	O	ALA	A	726	25.249	-4.644	42.670	1.00	10.98
5631	N	MET	A	727	26.793	-3.755	44.117	1.00	12.46
5632	CA	MET	A	727	25.845	-2.841	44.732	1.00	13.83
5633	CB	MET	A	727	25.026	-3.597	45.776	1.00	12.65
5634	CG	MET	A	727	24.013	-2.743	46.480	1.00	10.43
5635	SD	MET	A	727	22.583	-2.253	45.419	1.00	15.42
5636	CE	MET	A	727	22.394	-0.460	45.909	1.00	3.02
5637	C	MET	A	727	26.595	-1.585	45.324	1.00	15.24
5638	O	MET	A	727	27.522	-1.728	46.063	1.00	14.94
5639	N	TRP	A	728	26.235	-0.364	44.940	1.00	16.36
5640	CA	TRP	A	728	26.853	0.759	45.607	1.00	15.95
5641	CB	TRP	A	728	27.431	1.763	44.591	1.00	16.08
5642	CG	TRP	A	728	26.419	2.621	43.963	1.00	15.47
5643	CD1	TRP	A	728	25.854	3.664	44.529	1.00	18.89
5644	NE1	TRP	A	728	24.874	4.180	43.706	1.00	21.68
5645	CE2	TRP	A	728	24.812	3.447	42.556	1.00	13.87
5646	CD2	TRP	A	728	25.749	2.431	42.681	1.00	15.18
5647	CE3	TRP	A	728	25.919	1.558	41.613	1.00	9.81
5648	CZ3	TRP	A	728	25.145	1.722	40.503	1.00	10.09
5649	CH2	TRP	A	728	24.211	2.737	40.420	1.00	12.20
5650	CZ2	TRP	A	728	24.055	3.634	41.432	1.00	13.64
5651	C	TRP	A	728	25.725	1.297	46.443	1.00	17.19
5652	O	TRP	A	728	24.591	0.965	46.124	1.00	17.28

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5653	N	TYR	A	729	26.039	2.067	47.505	1.00	15.64
5654	CA	TYR	A	729	25.091	2.790	48.350	1.00	13.06
5655	CB	TYR	A	729	25.041	2.229	49.788	1.00	12.60
5656	CG	TYR	A	729	24.352	0.885	49.848	1.00	7.93
5657	CD1	TYR	A	729	23.013	0.784	49.701	1.00	4.69
5658	CE1	TYR	A	729	22.388	-0.431	49.727	1.00	2.00
5659	CZ	TYR	A	729	23.123	-1.517	49.810	1.00	3.53
5660	OH	TYR	A	729	22.531	-2.692	49.768	1.00	9.27
5661	CE2	TYR	A	729	24.445	-1.476	49.970	1.00	5.74
5662	CD2	TYR	A	729	25.068	-0.275	50.016	1.00	4.63
5663	C	TYR	A	729	25.474	4.260	48.375	1.00	13.88
5664	O	TYR	A	729	26.547	4.663	48.791	1.00	14.09
5665	N	SER	A	730	24.568	5.056	47.854	1.00	14.87
5666	CA	SER	A	730	24.830	6.467	47.555	1.00	14.61
5667	CB	SER	A	730	23.701	6.965	46.662	1.00	12.16
5668	OG	SER	A	730	23.737	6.317	45.375	1.00	15.56
5669	C	SER	A	730	24.941	7.260	48.866	1.00	14.32
5670	O	SER	A	730	24.024	7.263	49.678	1.00	15.45
5671	N	ASP	A	731	26.041	7.932	49.083	1.00	13.40
5672	CA	ASP	A	731	26.191	8.857	50.220	1.00	13.19
5673	CB	ASP	A	731	25.064	9.883	50.206	1.00	12.68
5674	CG	ASP	A	731	25.168	10.842	49.052	1.00	14.52
5675	OD1	ASP	A	731	24.084	11.415	48.809	1.00	18.51
5676	OD2	ASP	A	731	26.240	11.116	48.375	1.00	18.18
5677	C	ASP	A	731	26.345	8.231	51.610	1.00	14.16
5678	O	ASP	A	731	26.061	8.847	52.633	1.00	14.39
5679	N	GLN	A	732	26.858	7.018	51.606	1.00	13.02
5680	CA	GLN	A	732	26.949	6.167	52.746	1.00	13.35
5681	CB	GLN	A	732	26.276	4.821	52.460	1.00	14.21
5682	CG	GLN	A	732	24.810	4.960	52.306	1.00	13.04
5683	CD	GLN	A	732	24.148	5.987	53.264	1.00	19.31
5684	OE1	GLN	A	732	23.570	7.020	52.823	1.00	17.32
5685	NE2	GLN	A	732	24.177	5.673	54.564	1.00	14.11
5686	C	GLN	A	732	28.368	5.896	53.049	1.00	13.27
5687	O	GLN	A	732	29.208	5.819	52.167	1.00	15.90
5688	N	ASN	A	733	28.656	5.734	54.304	1.00	10.84
5689	CA	ASN	A	733	29.979	5.475	54.687	1.00	11.55
5690	CB	ASN	A	733	30.325	6.439	55.762	1.00	11.04
5691	CG	ASN	A	733	29.556	6.223	57.028	1.00	14.12
5692	OD1	ASN	A	733	28.857	5.143	57.297	1.00	19.03
5693	ND2	ASN	A	733	29.807	7.172	57.926	1.00	7.66
5694	C	ASN	A	733	30.285	4.019	55.025	1.00	12.63
5695	O	ASN	A	733	29.589	3.165	54.609	1.00	11.63
5696	N	HIS	A	734	31.389	3.786	55.728	1.00	14.22
5697	CA	HIS	A	734	31.971	2.505	55.904	1.00	15.15
5698	CB	HIS	A	734	33.306	2.585	56.709	1.00	15.51
5699	CG	HIS	A	734	34.062	1.279	56.711	1.00	17.27
5700	ND1	HIS	A	734	34.177	0.507	55.575	1.00	17.34
5701	CE1	HIS	A	734	34.865	-0.591	55.881	1.00	21.14
5702	NE2	HIS	A	734	35.150	-0.582	57.169	1.00	18.45
5703	CD2	HIS	A	734	34.681	0.588	57.709	1.00	19.07

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5704	C	HIS	A	734	31.012	1.594	56.689	1.00	16.62
5705	O	HIS	A	734	31.268	0.416	56.812	1.00	15.59
5706	N	GLY	A	735	29.976	2.182	57.289	1.00	17.48
5707	CA	GLY	A	735	29.074	1.427	58.132	1.00	17.45
5708	C	GLY	A	735	27.700	1.359	57.613	1.00	17.68
5709	O	GLY	A	735	26.840	1.053	58.375	1.00	18.64
5710	N	LEU	A	736	27.459	1.744	56.363	1.00	17.68
5711	CA	LEU	A	736	26.204	1.466	55.654	1.00	17.26
5712	CB	LEU	A	736	26.350	0.071	55.057	1.00	17.11
5713	CG	LEU	A	736	27.420	-0.090	53.963	1.00	19.03
5714	CD1	LEU	A	736	27.556	-1.531	53.496	1.00	22.61
5715	CD2	LEU	A	736	27.079	0.750	52.750	1.00	21.35
5716	C	LEU	A	736	24.963	1.572	56.576	1.00	17.30
5717	O	LEU	A	736	24.136	0.673	56.652	1.00	16.85
5718	N	SER	A	737	24.910	2.663	57.338	1.00	17.89
5719	CA	SER	A	737	23.979	2.843	58.456	1.00	17.29
5720	CB	SER	A	737	24.538	3.890	59.502	1.00	17.66
5721	OG	SER	A	737	25.783	4.531	59.137	1.00	14.44
5722	C	SER	A	737	22.583	3.247	57.856	1.00	17.71
5723	O	SER	A	737	22.420	3.459	56.617	1.00	19.23
5724	N	GLY	A	738	21.570	3.343	58.675	1.00	17.36
5725	CA	GLY	A	738	20.293	3.868	58.191	1.00	18.52
5726	C	GLY	A	738	19.471	2.811	57.468	1.00	18.55
5727	O	GLY	A	738	19.499	1.619	57.776	1.00	19.59
5728	N	LEU	A	739	18.759	3.233	56.445	1.00	18.32
5729	CA	LEU	A	739	18.018	2.241	55.629	1.00	15.01
5730	CB	LEU	A	739	16.911	3.035	54.909	1.00	14.77
5731	CG	LEU	A	739	15.502	3.134	55.489	1.00	12.11
5732	CD1	LEU	A	739	15.529	2.905	56.926	1.00	14.74
5733	CD2	LEU	A	739	14.792	4.379	55.176	1.00	12.69
5734	C	LEU	A	739	18.998	1.449	54.659	1.00	13.81
5735	O	LEU	A	739	18.698	0.384	54.049	1.00	9.66
5736	N	SER	A	740	20.213	2.004	54.500	1.00	13.61
5737	CA	SER	A	740	21.163	1.322	53.695	1.00	12.82
5738	CB	SER	A	740	22.470	2.035	53.733	1.00	13.43
5739	OG	SER	A	740	22.347	3.395	53.369	1.00	22.19
5740	C	SER	A	740	21.313	-0.034	54.326	1.00	11.79
5741	O	SER	A	740	21.473	-0.991	53.619	1.00	11.63
5742	N	THR	A	741	21.310	-0.108	55.668	1.00	11.65
5743	CA	THR	A	741	21.525	-1.377	56.435	1.00	11.21
5744	CB	THR	A	741	21.498	-1.010	57.956	1.00	13.02
5745	OG1	THR	A	741	22.676	-0.243	58.300	1.00	11.22
5746	CG2	THR	A	741	21.531	-2.301	58.871	1.00	8.44
5747	C	THR	A	741	20.462	-2.431	56.171	1.00	11.38
5748	O	THR	A	741	20.728	-3.558	55.876	1.00	11.12
5749	N	ASN	A	742	19.226	-1.976	56.209	1.00	10.37
5750	CA	ASN	A	742	18.032	-2.785	55.896	1.00	12.35
5751	CB	ASN	A	742	16.793	-1.890	55.966	1.00	12.34
5752	CG	ASN	A	742	16.472	-1.428	57.371	1.00	13.98
5753	OD1	ASN	A	742	15.379	-1.084	57.649	1.00	11.97
5754	ND2	ASN	A	742	17.439	-1.451	58.247	1.00	15.04

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5755	C	ASN	A	742	18.024	-3.375	54.516	1.00	13.82
5756	O	ASN	A	742	17.396	-4.480	54.226	1.00	14.91
5757	N	HIS	A	743	18.587	-2.536	53.651	1.00	11.96
5758	CA	HIS	A	743	18.714	-2.745	52.234	1.00	12.23
5759	CB	HIS	A	743	18.964	-1.386	51.467	1.00	10.80
5760	CG	HIS	A	743	18.785	-1.517	49.987	1.00	11.98
5761	ND1	HIS	A	743	19.658	-2.252	49.194	1.00	6.27
5762	CE1	HIS	A	743	19.178	-2.270	47.958	1.00	7.32
5763	NE2	HIS	A	743	18.032	-1.596	47.924	1.00	6.40
5764	CD2	HIS	A	743	17.781	-1.092	49.176	1.00	7.89
5765	C	HIS	A	743	19.848	-3.715	51.992	1.00	12.02
5766	O	HIS	A	743	19.749	-4.577	51.163	1.00	13.04
5767	N	LEU	A	744	20.904	-3.561	52.736	1.00	12.42
5768	CA	LEU	A	744	22.113	-4.269	52.489	1.00	12.48
5769	CB	LEU	A	744	23.246	-3.614	53.230	1.00	12.13
5770	CG	LEU	A	744	24.364	-4.509	53.774	1.00	14.96
5771	CD1	LEU	A	744	25.279	-5.210	52.717	1.00	16.30
5772	CD2	LEU	A	744	25.191	-3.672	54.730	1.00	18.23
5773	C	LEU	A	744	21.983	-5.674	52.928	1.00	13.58
5774	O	LEU	A	744	22.431	-6.602	52.244	1.00	14.76
5775	N	TYR	A	745	21.401	-5.843	54.101	1.00	13.05
5776	CA	TYR	A	745	21.133	-7.140	54.598	1.00	13.27
5777	CB	TYR	A	745	20.715	-7.079	56.047	1.00	12.54
5778	CG	TYR	A	745	21.957	-7.039	56.843	1.00	13.90
5779	CD1	TYR	A	745	22.406	-5.858	57.261	1.00	8.48
5780	CE1	TYR	A	745	23.504	-5.739	57.902	1.00	16.33
5781	CZ	TYR	A	745	24.307	-6.806	58.190	1.00	18.91
5782	OH	TYR	A	745	25.374	-6.424	58.914	1.00	12.96
5783	CE2	TYR	A	745	23.950	-8.111	57.812	1.00	17.99
5784	CD2	TYR	A	745	22.734	-8.227	57.096	1.00	15.24
5785	C	TYR	A	745	20.102	-7.862	53.859	1.00	13.42
5786	O	TYR	A	745	20.160	-9.094	53.807	1.00	13.85
5787	N	THR	A	746	19.106	-7.168	53.327	1.00	13.95
5788	CA	THR	A	746	18.166	-7.894	52.466	1.00	12.84
5789	CB	THR	A	746	17.036	-7.022	52.106	1.00	13.74
5790	OG1	THR	A	746	16.280	-6.759	53.291	1.00	14.64
5791	CG2	THR	A	746	16.099	-7.779	51.293	1.00	9.59
5792	C	THR	A	746	18.856	-8.395	51.200	1.00	11.63
5793	O	THR	A	746	18.651	-9.513	50.734	1.00	12.55
5794	N	HIS	A	747	19.717	-7.588	50.663	1.00	9.74
5795	CA	HIS	A	747	20.208	-7.880	49.370	1.00	8.68
5796	CB	HIS	A	747	20.852	-6.591	48.772	1.00	10.03
5797	CG	HIS	A	747	21.249	-6.684	47.328	1.00	10.24
5798	ND1	HIS	A	747	20.344	-6.904	46.322	1.00	15.37
5799	CE1	HIS	A	747	20.976	-6.928	45.157	1.00	16.99
5800	NE2	HIS	A	747	22.257	-6.701	45.378	1.00	16.73
5801	CD2	HIS	A	747	22.452	-6.526	46.727	1.00	14.04
5802	C	HIS	A	747	21.199	-8.973	49.498	1.00	8.87
5803	O	HIS	A	747	21.441	-9.663	48.568	1.00	8.43
5804	N	MET	A	748	21.876	-9.083	50.620	1.00	8.77
5805	CA	MET	A	748	22.858	-10.145	50.787	1.00	10.35

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5806	CB	MET	A	748	23.766	-9.789	51.916	1.00	10.30
5807	CG	MET	A	748	24.834	-8.844	51.557	1.00	13.18
5808	SD	MET	A	748	26.062	-8.821	52.814	1.00	17.53
5809	CE	MET	A	748	25.057	-8.778	54.137	1.00	13.42
5810	C	MET	A	748	22.129	-11.467	51.079	1.00	11.64
5811	O	MET	A	748	22.538	-12.588	50.686	1.00	11.21
5812	N	THR	A	749	21.000	-11.345	51.761	1.00	12.95
5813	CA	THR	A	749	20.288	-12.556	52.080	1.00	12.56
5814	CB	THR	A	749	19.460	-12.474	53.394	1.00	13.07
5815	OG1	THR	A	749	18.117	-12.745	53.100	1.00	15.51
5816	CG2	THR	A	749	19.433	-11.131	53.992	1.00	8.04
5817	C	THR	A	749	19.601	-13.053	50.826	1.00	12.84
5818	O	THR	A	749	19.694	-14.250	50.541	1.00	13.65
5819	N	HIS	A	750	19.099	-12.182	49.950	1.00	13.23
5820	CA	HIS	A	750	18.570	-12.697	48.638	1.00	12.76
5821	CB	HIS	A	750	17.958	-11.603	47.736	1.00	13.69
5822	CG	HIS	A	750	16.577	-11.104	48.127	1.00	16.74
5823	ND1	HIS	A	750	15.519	-11.935	48.466	1.00	20.64
5824	CE1	HIS	A	750	14.452	-11.197	48.735	1.00	21.60
5825	NE2	HIS	A	750	14.768	-9.923	48.577	1.00	21.63
5826	CD2	HIS	A	750	16.086	-9.837	48.182	1.00	17.44
5827	C	HIS	A	750	19.720	-13.436	47.888	1.00	11.27
5828	O	HIS	A	750	19.540	-14.546	47.304	1.00	12.61
5829	N	PHE	A	751	20.899	-12.853	47.933	1.00	8.96
5830	CA	PHE	A	751	22.094	-13.434	47.265	1.00	9.08
5831	CB	PHE	A	751	23.280	-12.438	47.352	1.00	8.59
5832	CG	PHE	A	751	24.599	-12.913	46.670	1.00	11.77
5833	CD1	PHE	A	751	25.599	-13.489	47.401	1.00	10.20
5834	CE1	PHE	A	751	26.831	-13.915	46.789	1.00	12.95
5835	CZ	PHE	A	751	27.058	-13.747	45.494	1.00	11.25
5836	CE2	PHE	A	751	26.074	-13.124	44.732	1.00	12.45
5837	CD2	PHE	A	751	24.849	-12.702	45.324	1.00	11.80
5838	C	PHE	A	751	22.453	-14.901	47.768	1.00	7.83
5839	O	PHE	A	751	22.409	-15.857	46.957	1.00	5.92
5840	N	LEU	A	752	22.714	-15.034	49.081	1.00	6.15
5841	CA	LEU	A	752	22.986	-16.297	49.704	1.00	6.91
5842	CB	LEU	A	752	23.256	-16.192	51.228	1.00	4.94
5843	CG	LEU	A	752	24.429	-15.347	51.730	1.00	6.41
5844	CD1	LEU	A	752	24.482	-15.304	53.239	1.00	2.00
5845	CD2	LEU	A	752	25.793	-15.734	51.227	1.00	3.06
5846	C	LEU	A	752	21.864	-17.320	49.448	1.00	8.04
5847	O	LEU	A	752	22.151	-18.471	49.126	1.00	7.15
5848	N	LYS	A	753	20.603	-16.912	49.530	1.00	9.96
5849	CA	LYS	A	753	19.481	-17.855	49.130	1.00	11.66
5850	CB	LYS	A	753	18.095	-17.252	49.452	1.00	11.26
5851	CG	LYS	A	753	17.916	-17.056	50.994	1.00	13.09
5852	CD	LYS	A	753	16.682	-16.305	51.412	1.00	16.30
5853	CE	LYS	A	753	15.479	-17.224	51.685	1.00	14.13
5854	NZ	LYS	A	753	14.303	-16.401	51.412	1.00	13.35
5855	C	LYS	A	753	19.572	-18.359	47.677	1.00	13.14
5856	O	LYS	A	753	19.546	-19.557	47.436	1.00	13.57

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5857	N	GLN	A	754	19.648	-17.459	46.710	1.00	14.67
5858	CA	GLN	A	754	20.081	-17.855	45.363	1.00	16.81
5859	CB	GLN	A	754	20.381	-16.598	44.476	1.00	17.29
5860	CG	GLN	A	754	21.319	-16.783	43.172	1.00	22.29
5861	CD	GLN	A	754	22.952	-16.713	43.435	1.00	28.39
5862	OE1	GLN	A	754	23.642	-17.807	43.422	1.00	31.98
5863	NE2	GLN	A	754	23.532	-15.477	43.622	1.00	20.24
5864	C	GLN	A	754	21.294	-18.838	45.429	1.00	17.23
5865	O	GLN	A	754	21.275	-19.863	44.780	1.00	17.70
5866	N	CYS	A	755	22.340	-18.522	46.196	1.00	17.04
5867	CA	CYS	A	755	23.532	-19.348	46.207	1.00	18.02
5868	CB	CYS	A	755	24.632	-18.688	46.988	1.00	18.09
5869	SG	CYS	A	755	26.312	-19.425	46.831	1.00	24.07
5870	C	CYS	A	755	23.228	-20.720	46.798	1.00	17.86
5871	O	CYS	A	755	23.877	-21.682	46.428	1.00	18.22
5872	N	PHE	A	756	22.223	-20.791	47.674	1.00	16.89
5873	CA	PHE	A	756	21.863	-22.011	48.394	1.00	16.57
5874	CB	PHE	A	756	21.782	-21.749	49.918	1.00	16.50
5875	CG	PHE	A	756	23.137	-21.427	50.567	1.00	15.47
5876	CD1	PHE	A	756	24.325	-21.412	49.827	1.00	13.28
5877	CE1	PHE	A	756	25.561	-21.129	50.416	1.00	11.54
5878	CZ	PHE	A	756	25.640	-20.892	51.737	1.00	12.43
5879	CE2	PHE	A	756	24.463	-20.873	52.496	1.00	12.53
5880	CD2	PHE	A	756	23.214	-21.132	51.898	1.00	12.14
5881	C	PHE	A	756	20.577	-22.683	47.880	1.00	17.11
5882	O	PHE	A	756	20.341	-23.831	48.254	1.00	16.76
5883	N	SER	A	757	19.826	-22.004	46.984	1.00	16.90
5884	CA	SER	A	757	18.630	-22.509	46.287	1.00	17.32
5885	CB	SER	A	757	19.027	-23.387	45.060	1.00	17.50
5886	OG	SER	A	757	19.919	-24.452	45.383	1.00	15.50
5887	C	SER	A	757	17.619	-23.227	47.214	1.00	18.11
5888	O	SER	A	757	17.412	-24.468	47.137	1.00	17.93
5889	C1	NAG	A	4901	10.641	-3.275	67.890	1.00	40.74
5890	C2	NAG	A	4901	9.327	-4.042	67.754	1.00	45.13
5891	N2	NAG	A	4901	8.674	-3.700	66.503	1.00	48.13
5892	C7	NAG	A	4901	8.258	-2.467	66.238	1.00	51.49
5893	O7	NAG	A	4901	8.435	-1.542	67.005	1.00	53.88
5894	C8	NAG	A	4901	7.627	-2.278	64.894	1.00	50.22
5895	C3	NAG	A	4901	8.454	-3.767	68.970	1.00	45.16
5896	O3	NAG	A	4901	7.223	-4.500	68.901	1.00	47.11
5897	C4	NAG	A	4901	9.241	-4.175	70.207	1.00	47.14
5898	O4	NAG	A	4901	8.466	-3.892	71.377	1.00	45.67
5899	C5	NAG	A	4901	10.580	-3.435	70.268	1.00	46.55
5900	C6	NAG	A	4901	11.399	-3.865	71.486	1.00	48.42
5901	O6	NAG	A	4901	12.584	-4.575	71.098	1.00	50.96
5902	O5	NAG	A	4901	11.332	-3.672	69.079	1.00	43.60
5903	C1	NAG	A	9201	8.392	15.214	84.276	1.00	41.45
5904	C2	NAG	A	9201	8.123	14.017	83.385	1.00	43.77
5905	N2	NAG	A	9201	7.886	14.434	82.024	1.00	41.71
5906	C7	NAG	A	9201	8.513	13.867	81.005	1.00	40.33
5907	O7	NAG	A	9201	9.280	12.929	81.176	1.00	37.14

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5908	C8	NAG	A	9201	8.151	14.407	79.649	1.00	39.66
5909	C3	NAG	A	9201	6.862	13.365	83.912	1.00	45.44
5910	O3	NAG	A	9201	6.513	12.284	83.038	1.00	44.70
5911	C4	NAG	A	9201	7.093	12.934	85.353	1.00	47.30
5912	O4	NAG	A	9201	6.460	12.158	86.163	1.00	55.17
5913	C5	NAG	A	9201	7.558	14.121	86.205	1.00	46.48
5914	C6	NAG	A	9201	7.865	13.683	87.641	1.00	45.78
5915	O6	NAG	A	9201	8.949	14.444	88.181	1.00	44.67
5916	O5	NAG	A	9201	8.677	14.777	85.603	1.00	44.90
5917	C1	NAG	A	9202	5.848	12.314	87.463	1.00	74.46
5918	C2	NAG	A	9202	4.710	13.078	88.122	1.00	78.22
5919	N2	NAG	A	9202	4.847	14.520	88.127	1.00	78.03
5920	C7	NAG	A	9202	4.090	15.301	87.353	1.00	79.47
5921	O7	NAG	A	9202	4.200	16.517	87.350	1.00	82.13
5922	C8	NAG	A	9202	3.171	14.588	86.407	1.00	77.68
5923	C3	NAG	A	9202	4.647	12.614	89.561	1.00	78.59
5924	O3	NAG	A	9202	3.656	13.355	90.276	1.00	80.43
5925	C4	NAG	A	9202	4.314	11.133	89.565	1.00	80.32
5926	O4	NAG	A	9202	4.289	10.664	90.913	1.00	79.64
5927	C5	NAG	A	9202	5.362	10.362	88.772	1.00	80.37
5928	C6	NAG	A	9202	4.994	8.881	88.708	1.00	82.61
5929	O6	NAG	A	9202	4.824	8.450	87.357	1.00	84.12
5930	O5	NAG	A	9202	5.503	10.923	87.459	1.00	80.28
5931	C1	NAG	A	2271	53.575	22.874	58.852	1.00	33.59
5932	C2	NAG	A	2271	53.922	23.504	57.518	1.00	36.66
5933	N2	NAG	A	2271	54.684	22.589	56.703	1.00	39.61
5934	C7	NAG	A	2271	54.361	22.348	55.442	1.00	42.17
5935	O7	NAG	A	2271	53.433	22.934	54.903	1.00	43.84
5936	C8	NAG	A	2271	55.258	21.379	54.726	1.00	41.07
5937	C3	NAG	A	2271	54.788	24.707	57.825	1.00	36.72
5938	O3	NAG	A	2271	55.224	25.278	56.585	1.00	35.19
5939	C4	NAG	A	2271	54.001	25.674	58.698	1.00	36.98
5940	O4	NAG	A	2271	54.168	26.904	59.040	1.00	39.47
5941	C5	NAG	A	2271	53.485	24.967	59.957	1.00	34.58
5942	C6	NAG	A	2271	52.628	25.912	60.807	1.00	32.82
5943	O6	NAG	A	2271	51.394	25.286	61.170	1.00	32.34
5944	O5	NAG	A	2271	52.777	23.772	59.620	1.00	35.28
5945	C1	NAG	A	2272	55.901	26.288	55.783	1.00	36.15
5946	C2	NAG	A	2272	57.403	26.163	55.575	1.00	35.55
5947	N2	NAG	A	2272	58.225	26.930	56.487	1.00	36.87
5948	C7	NAG	A	2272	58.942	26.345	57.450	1.00	38.65
5949	O7	NAG	A	2272	59.636	26.984	58.224	1.00	39.92
5950	C8	NAG	A	2272	58.757	24.864	57.592	1.00	37.68
5951	C3	NAG	A	2272	57.691	26.649	54.171	1.00	36.22
5952	O3	NAG	A	2272	59.100	26.649	53.928	1.00	36.38
5953	C4	NAG	A	2272	56.980	25.727	53.197	1.00	35.70
5954	O4	NAG	A	2272	57.206	26.191	51.866	1.00	34.15
5955	C5	NAG	A	2272	55.485	25.714	53.490	1.00	34.70
5956	C6	NAG	A	2272	54.772	24.732	52.563	1.00	34.53
5957	O6	NAG	A	2272	53.924	23.852	53.299	1.00	38.63
5958	O5	NAG	A	2272	55.252	25.395	54.869	1.00	35.69

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
5959	N	MET	B	39	22.005	-23.244	9.715	1.00	17.11
5960	CA	MET	B	39	22.643	-24.341	10.433	1.00	18.01
5961	CB	MET	B	39	23.992	-24.684	9.800	1.00	18.19
5962	CG	MET	B	39	24.146	-26.148	9.421	1.00	22.40
5963	SD	MET	B	39	25.839	-26.738	9.591	1.00	28.60
5964	CE	MET	B	39	26.395	-26.668	7.888	1.00	25.97
5965	C	MET	B	39	22.827	-24.000	11.908	1.00	17.51
5966	O	MET	B	39	22.601	-24.929	12.853	1.00	17.56
5967	N	ARG	B	40	23.360	-22.852	12.339	1.00	16.41
5968	CA	ARG	B	40	23.520	-22.435	13.757	1.00	15.65
5969	CB	ARG	B	40	24.943	-22.667	14.274	1.00	15.59
5970	CG	ARG	B	40	26.005	-21.850	13.650	1.00	14.19
5971	CD	ARG	B	40	26.519	-20.819	14.573	1.00	14.42
5972	NE	ARG	B	40	27.678	-20.104	14.044	1.00	13.17
5973	CZ	ARG	B	40	28.128	-18.979	14.545	1.00	13.72
5974	NH1	ARG	B	40	29.191	-18.422	13.994	1.00	13.90
5975	NH2	ARG	B	40	27.503	-18.377	15.574	1.00	14.28
5976	C	ARG	B	40	23.136	-20.994	14.058	1.00	15.02
5977	O	ARG	B	40	22.880	-20.192	13.155	1.00	14.95
5978	N	ALA	B	41	23.132	-20.666	15.343	1.00	14.15
5979	CA	ALA	B	41	22.576	-19.394	15.772	1.00	13.37
5980	CB	ALA	B	41	21.493	-19.619	16.888	1.00	13.61
5981	C	ALA	B	41	23.607	-18.286	16.180	1.00	12.62
5982	O	ALA	B	41	24.846	-18.470	16.248	1.00	12.06
5983	N	LEU	B	42	23.062	-17.108	16.356	1.00	10.68
5984	CA	LEU	B	42	23.865	-16.045	16.810	1.00	10.90
5985	CB	LEU	B	42	23.109	-14.724	16.636	1.00	11.03
5986	CG	LEU	B	42	23.571	-13.633	15.655	1.00	8.12
5987	CD1	LEU	B	42	24.541	-14.093	14.599	1.00	3.37
5988	CD2	LEU	B	42	22.365	-12.985	15.046	1.00	3.68
5989	C	LEU	B	42	24.227	-16.258	18.282	1.00	11.98
5990	O	LEU	B	42	23.445	-16.736	19.135	1.00	13.09
5991	N	THR	B	43	25.430	-15.850	18.599	1.00	11.91
5992	CA	THR	B	43	25.916	-16.083	19.914	1.00	11.40
5993	CB	THR	B	43	26.793	-17.322	19.863	1.00	10.31
5994	OG1	THR	B	43	27.335	-17.544	21.149	1.00	16.19
5995	CG2	THR	B	43	27.983	-17.164	19.037	1.00	7.46
5996	C	THR	B	43	26.611	-14.813	20.371	1.00	12.20
5997	O	THR	B	43	27.207	-14.118	19.560	1.00	12.03
5998	N	LEU	B	44	26.517	-14.519	21.670	1.00	11.89
5999	CA	LEU	B	44	27.008	-13.252	22.226	1.00	11.82
6000	CB	LEU	B	44	27.064	-13.330	23.738	1.00	11.83
6001	CG	LEU	B	44	26.415	-12.266	24.601	1.00	16.25
6002	CD1	LEU	B	44	27.134	-12.207	25.955	1.00	18.19
6003	CD2	LEU	B	44	26.303	-10.835	23.949	1.00	18.72
6004	C	LEU	B	44	28.419	-13.021	21.746	1.00	11.53
6005	O	LEU	B	44	28.761	-11.897	21.389	1.00	12.60
6006	N	LYS	B	45	29.257	-14.076	21.746	1.00	11.24
6007	CA	LYS	B	45	30.637	-13.893	21.282	1.00	11.14
6008	CB	LYS	B	45	31.520	-15.174	21.211	1.00	10.90
6009	CG	LYS	B	45	30.829	-16.650	20.889	1.00	13.94

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6010	CD	LYS	B	45	31.014	-17.860	21.983	1.00	14.60
6011	CE	LYS	B	45	29.914	-17.925	23.215	1.00	16.04
6012	NZ	LYS	B	45	28.648	-16.910	23.341	1.00	12.86
6013	C	LYS	B	45	30.554	-13.121	19.936	1.00	10.11
6014	O	LYS	B	45	30.988	-11.958	19.856	1.00	9.02
6015	N	ASP	B	46	29.906	-13.741	18.952	1.00	9.26
6016	CA	ASP	B	46	29.607	-13.103	17.645	1.00	9.91
6017	CB	ASP	B	46	28.453	-13.822	16.973	1.00	8.22
6018	CG	ASP	B	46	28.826	-15.164	16.530	1.00	9.22
6019	OD1	ASP	B	46	27.877	-15.832	16.099	1.00	12.09
6020	OD2	ASP	B	46	30.009	-15.642	16.552	1.00	7.31
6021	C	ASP	B	46	29.256	-11.617	17.674	1.00	10.37
6022	O	ASP	B	46	29.734	-10.819	16.842	1.00	11.29
6023	N	ILE	B	47	28.437	-11.244	18.635	1.00	10.45
6024	CA	ILE	B	47	28.098	-9.878	18.718	1.00	11.84
6025	CB	ILE	B	47	26.725	-9.716	19.262	1.00	11.87
6026	CG1	ILE	B	47	25.750	-10.195	18.179	1.00	13.81
6027	CD1	ILE	B	47	24.414	-10.483	18.656	1.00	15.65
6028	CG2	ILE	B	47	26.457	-8.249	19.518	1.00	9.33
6029	C	ILE	B	47	29.132	-8.999	19.384	1.00	12.95
6030	O	ILE	B	47	29.325	-7.854	18.941	1.00	13.55
6031	N	LEU	B	48	29.774	-9.469	20.438	1.00	12.55
6032	CA	LEU	B	48	30.756	-8.608	21.091	1.00	13.07
6033	CB	LEU	B	48	31.012	-9.012	22.533	1.00	12.18
6034	CG	LEU	B	48	29.732	-9.271	23.350	1.00	11.66
6035	CD1	LEU	B	48	29.909	-10.294	24.556	1.00	8.83
6036	CD2	LEU	B	48	29.165	-7.943	23.757	1.00	6.79
6037	C	LEU	B	48	32.057	-8.596	20.328	1.00	13.41
6038	O	LEU	B	48	32.865	-7.694	20.548	1.00	14.81
6039	N	ASN	B	49	32.273	-9.584	19.441	1.00	13.12
6040	CA	ASN	B	49	33.437	-9.571	18.593	1.00	12.70
6041	CB	ASN	B	49	33.861	-10.988	18.209	1.00	12.97
6042	CG	ASN	B	49	35.218	-11.011	17.491	1.00	15.42
6043	OD1	ASN	B	49	36.130	-10.398	18.027	1.00	19.86
6044	ND2	ASN	B	49	35.359	-11.681	16.269	1.00	20.13
6045	C	ASN	B	49	33.244	-8.776	17.300	1.00	12.19
6046	O	ASN	B	49	34.201	-8.651	16.517	1.00	12.65
6047	N	GLY	B	50	32.039	-8.271	17.046	1.00	11.02
6048	CA	GLY	B	50	31.711	-7.769	15.731	1.00	9.96
6049	C	GLY	B	50	32.004	-8.772	14.584	1.00	9.36
6050	O	GLY	B	50	32.349	-8.357	13.479	1.00	10.90
6051	N	THR	B	51	31.864	-10.077	14.786	1.00	7.69
6052	CA	THR	B	51	32.185	-10.960	13.672	1.00	7.44
6053	CB	THR	B	51	32.168	-12.468	14.019	1.00	7.78
6054	OG1	THR	B	51	32.589	-12.717	15.375	1.00	4.92
6055	CG2	THR	B	51	33.234	-13.180	13.135	1.00	7.93
6056	C	THR	B	51	31.297	-10.700	12.460	1.00	6.98
6057	O	THR	B	51	31.671	-11.015	11.359	1.00	6.19
6058	N	PHE	B	52	30.140	-10.106	12.707	1.00	7.66
6059	CA	PHE	B	52	29.234	-9.624	11.673	1.00	8.52
6060	CB	PHE	B	52	27.898	-10.269	11.979	1.00	8.10

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6061	CG	PHE	B	52	28.021	-11.774	12.138	1.00	10.70
6062	CD1	PHE	B	52	28.704	-12.521	11.202	1.00	12.23
6063	CE1	PHE	B	52	28.859	-13.850	11.334	1.00	15.26
6064	CZ	PHE	B	52	28.329	-14.489	12.386	1.00	13.51
6065	CE2	PHE	B	52	27.662	-13.792	13.310	1.00	14.12
6066	CD2	PHE	B	52	27.514	-12.419	13.208	1.00	14.43
6067	C	PHE	B	52	29.119	-8.099	11.516	1.00	9.47
6068	O	PHE	B	52	28.040	-7.556	11.283	1.00	10.26
6069	N	SER	B	53	30.208	-7.357	11.589	1.00	10.32
6070	CA	SER	B	53	30.052	-5.933	11.281	1.00	11.08
6071	CB	SER	B	53	31.084	-5.033	11.983	1.00	11.02
6072	OG	SER	B	53	32.433	-5.343	11.685	1.00	14.30
6073	C	SER	B	53	30.045	-5.794	9.759	1.00	10.83
6074	O	SER	B	53	30.387	-6.754	9.059	1.00	9.76
6075	N	TYR	B	54	29.528	-4.649	9.262	1.00	11.40
6076	CA	TYR	B	54	29.614	-4.339	7.860	1.00	11.61
6077	CB	TYR	B	54	28.262	-4.047	7.326	1.00	11.29
6078	CG	TYR	B	54	27.523	-2.938	8.056	1.00	13.57
6079	CD1	TYR	B	54	27.804	-1.584	7.810	1.00	11.73
6080	CE1	TYR	B	54	27.097	-0.580	8.508	1.00	17.61
6081	CZ	TYR	B	54	26.115	-0.954	9.395	1.00	16.18
6082	OH	TYR	B	54	25.422	-0.030	10.050	1.00	19.16
6083	CE2	TYR	B	54	25.823	-2.280	9.606	1.00	13.20
6084	CD2	TYR	B	54	26.519	-3.248	8.955	1.00	10.85
6085	C	TYR	B	54	30.562	-3.182	7.641	1.00	11.91
6086	O	TYR	B	54	30.798	-2.378	8.555	1.00	11.05
6087	N	LYS	B	55	31.087	-3.098	6.415	1.00	12.13
6088	CA	LYS	B	55	31.942	-1.999	5.963	1.00	12.42
6089	CB	LYS	B	55	33.140	-2.540	5.151	1.00	13.60
6090	CG	LYS	B	55	34.196	-3.421	5.914	1.00	12.38
6091	CD	LYS	B	55	35.575	-3.282	5.199	1.00	16.95
6092	CE	LYS	B	55	36.559	-4.503	5.303	1.00	16.70
6093	NZ	LYS	B	55	36.933	-5.039	3.890	1.00	16.98
6094	C	LYS	B	55	31.158	-1.001	5.084	1.00	12.58
6095	O	LYS	B	55	30.270	-1.321	4.324	1.00	12.86
6096	N	THR	B	56	31.544	0.232	5.187	1.00	12.90
6097	CA	THR	B	56	30.851	1.317	4.572	1.00	12.38
6098	CB	THR	B	56	30.283	2.102	5.772	1.00	13.33
6099	OG1	THR	B	56	28.881	2.330	5.624	1.00	15.28
6100	CG2	THR	B	56	30.906	3.425	5.986	1.00	14.14
6101	C	THR	B	56	32.007	1.941	3.785	1.00	12.39
6102	O	THR	B	56	33.200	1.657	4.086	1.00	11.45
6103	N	PHE	B	57	31.745	2.670	2.718	1.00	11.30
6104	CA	PHE	B	57	32.906	3.281	2.068	1.00	12.28
6105	CB	PHE	B	57	33.328	2.470	0.823	1.00	11.92
6106	CG	PHE	B	57	34.573	2.968	0.174	1.00	10.29
6107	CD1	PHE	B	57	35.719	2.201	0.158	1.00	10.46
6108	CE1	PHE	B	57	36.902	2.690	-0.448	1.00	10.46
6109	CZ	PHE	B	57	36.928	3.894	-1.009	1.00	9.87
6110	CE2	PHE	B	57	35.775	4.669	-1.013	1.00	11.55
6111	CD2	PHE	B	57	34.607	4.189	-0.457	1.00	7.94

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6112	C	PHE	B	57	32.655	4.745	1.721	1.00	12.49
6113	O	PHE	B	57	31.959	5.032	0.778	1.00	14.13
6114	N	PHE	B	58	33.229	5.672	2.458	1.00	12.90
6115	CA	PHE	B	58	32.857	7.075	2.199	1.00	13.65
6116	CB	PHE	B	58	32.486	7.867	3.466	1.00	12.50
6117	CG	PHE	B	58	31.160	7.529	4.079	1.00	8.65
6118	CD1	PHE	B	58	30.067	8.332	3.833	1.00	7.07
6119	CE1	PHE	B	58	28.827	8.088	4.363	1.00	5.51
6120	CZ	PHE	B	58	28.625	7.030	5.223	1.00	6.71
6121	CE2	PHE	B	58	29.663	6.179	5.494	1.00	7.30
6122	CD2	PHE	B	58	30.997	6.453	4.919	1.00	9.16
6123	C	PHE	B	58	34.119	7.651	1.581	1.00	14.95
6124	O	PHE	B	58	35.132	7.847	2.244	1.00	15.58
6125	N	PRO	B	59	34.075	7.966	0.300	1.00	16.78
6126	CA	PRO	B	59	35.303	8.357	-0.374	1.00	16.59
6127	CB	PRO	B	59	34.845	8.468	-1.842	1.00	16.83
6128	CG	PRO	B	59	33.612	7.643	-1.920	1.00	16.89
6129	CD	PRO	B	59	32.932	8.099	-0.615	1.00	16.42
6130	C	PRO	B	59	35.718	9.691	0.200	1.00	15.98
6131	O	PRO	B	59	34.890	10.452	0.559	1.00	13.18
6132	N	ASN	B	60	37.010	9.922	0.259	1.00	16.93
6133	CA	ASN	B	60	37.586	11.113	0.817	1.00	18.16
6134	CB	ASN	B	60	38.854	10.708	1.586	1.00	19.50
6135	CG	ASN	B	60	39.425	11.846	2.460	1.00	21.77
6136	OD1	ASN	B	60	39.718	11.604	3.570	1.00	28.03
6137	ND2	ASN	B	60	39.619	13.033	1.921	1.00	25.76
6138	C	ASN	B	60	37.913	12.118	-0.279	1.00	17.26
6139	O	ASN	B	60	39.027	12.284	-0.743	1.00	17.41
6140	N	TRP	B	61	36.918	12.896	-0.639	1.00	18.28
6141	CA	TRP	B	61	37.068	13.718	-1.815	1.00	17.79
6142	CB	TRP	B	61	35.809	14.447	-2.055	1.00	17.16
6143	CG	TRP	B	61	34.648	13.506	-2.016	1.00	18.56
6144	CD1	TRP	B	61	33.761	13.367	-0.998	1.00	18.52
6145	NE1	TRP	B	61	32.794	12.460	-1.342	1.00	17.93
6146	CE2	TRP	B	61	33.097	11.954	-2.576	1.00	20.60
6147	CD2	TRP	B	61	34.247	12.602	-3.024	1.00	18.76
6148	CE3	TRP	B	61	34.737	12.271	-4.277	1.00	16.69
6149	CZ3	TRP	B	61	34.077	11.366	-5.016	1.00	16.50
6150	CH2	TRP	B	61	32.948	10.737	-4.552	1.00	15.26
6151	CZ2	TRP	B	61	32.445	10.993	-3.338	1.00	15.48
6152	C	TRP	B	61	38.201	14.668	-1.677	1.00	17.99
6153	O	TRP	B	61	38.348	15.265	-0.626	1.00	16.62
6154	N	ILE	B	62	39.066	14.694	-2.701	1.00	18.00
6155	CA	ILE	B	62	40.048	15.754	-2.829	1.00	18.46
6156	CB	ILE	B	62	41.439	15.275	-2.613	1.00	18.66
6157	CG1	ILE	B	62	41.777	14.014	-3.454	1.00	17.94
6158	CD1	ILE	B	62	43.098	14.117	-4.182	1.00	9.62
6159	CG2	ILE	B	62	41.562	15.015	-1.148	1.00	18.27
6160	C	ILE	B	62	39.881	16.638	-4.034	1.00	19.15
6161	O	ILE	B	62	40.386	17.759	-4.038	1.00	19.98
6162	N	SER	B	63	39.024	16.256	-4.975	1.00	18.31

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6163	CA	SER	B	63	38.644	17.258	-5.989	1.00	17.17
6164	CB	SER	B	63	39.559	17.144	-7.185	1.00	16.49
6165	OG	SER	B	63	39.595	15.778	-7.551	1.00	20.37
6166	C	SER	B	63	37.256	17.003	-6.412	1.00	15.31
6167	O	SER	B	63	36.523	16.495	-5.668	1.00	14.71
6168	N	GLY	B	64	36.897	17.320	-7.637	1.00	15.87
6169	CA	GLY	B	64	35.623	16.871	-8.133	1.00	14.87
6170	C	GLY	B	64	35.634	15.421	-8.532	1.00	15.08
6171	O	GLY	B	64	34.553	14.794	-8.623	1.00	15.01
6172	N	GLN	B	65	36.828	14.874	-8.761	1.00	14.48
6173	CA	GLN	B	65	36.960	13.557	-9.409	1.00	14.66
6174	CB	GLN	B	65	37.137	13.777	-10.913	1.00	13.97
6175	CG	GLN	B	65	38.364	14.596	-11.280	1.00	19.22
6176	CD	GLN	B	65	38.122	16.103	-11.299	1.00	25.85
6177	OE1	GLN	B	65	37.099	16.551	-11.790	1.00	32.67
6178	NE2	GLN	B	65	39.061	16.879	-10.780	1.00	27.91
6179	C	GLN	B	65	38.035	12.580	-8.876	1.00	14.60
6180	O	GLN	B	65	38.346	11.552	-9.579	1.00	15.77
6181	N	GLU	B	66	38.574	12.860	-7.669	1.00	13.93
6182	CA	GLU	B	66	39.565	12.015	-6.954	1.00	12.08
6183	CB	GLU	B	66	40.935	12.588	-7.144	1.00	11.55
6184	CG	GLU	B	66	41.293	12.923	-8.574	1.00	11.39
6185	CD	GLU	B	66	42.194	14.116	-8.651	1.00	12.69
6186	OE1	GLU	B	66	43.309	13.817	-9.089	1.00	11.66
6187	OE2	GLU	B	66	41.805	15.285	-8.192	1.00	14.97
6188	C	GLU	B	66	39.362	11.820	-5.442	1.00	12.22
6189	O	GLU	B	66	38.900	12.689	-4.767	1.00	11.83
6190	N	TYR	B	67	39.708	10.660	-4.911	1.00	12.53
6191	CA	TYR	B	67	39.492	10.411	-3.505	1.00	13.20
6192	CB	TYR	B	67	38.126	9.700	-3.286	1.00	12.84
6193	CG	TYR	B	67	37.852	8.350	-3.922	1.00	12.16
6194	CD1	TYR	B	67	38.396	7.201	-3.421	1.00	16.02
6195	CE1	TYR	B	67	38.137	5.975	-3.985	1.00	13.50
6196	CZ	TYR	B	67	37.287	5.878	-5.018	1.00	12.40
6197	OH	TYR	B	67	37.086	4.644	-5.533	1.00	16.56
6198	CE2	TYR	B	67	36.724	6.935	-5.547	1.00	13.13
6199	CD2	TYR	B	67	36.988	8.201	-4.981	1.00	12.95
6200	C	TYR	B	67	40.642	9.639	-2.925	1.00	15.17
6201	O	TYR	B	67	41.442	9.071	-3.734	1.00	14.51
6202	N	LEU	B	68	40.769	9.572	-1.568	1.00	17.41
6203	CA	LEU	B	68	41.967	8.876	-1.000	1.00	19.55
6204	CB	LEU	B	68	42.893	9.857	-0.214	1.00	18.86
6205	CG	LEU	B	68	43.448	11.197	-0.773	1.00	18.26
6206	CD1	LEU	B	68	44.301	11.904	0.188	1.00	16.09
6207	CD2	LEU	B	68	44.288	10.976	-1.951	1.00	14.79
6208	C	LEU	B	68	41.742	7.553	-0.182	1.00	21.65
6209	O	LEU	B	68	42.000	7.523	0.987	1.00	22.87
6210	N	HIS	B	69	41.335	6.437	-0.767	1.00	23.55
6211	CA	HIS	B	69	41.247	5.209	0.053	1.00	26.00
6212	CB	HIS	B	69	40.739	3.902	-0.692	1.00	27.36
6213	CG	HIS	B	69	41.299	3.631	-2.094	1.00	28.96

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6214	ND1	HIS	B	69	41.191	2.388	-2.689	1.00	32.66
6215	CE1	HIS	B	69	41.698	2.421	-3.914	1.00	34.69
6216	NE2	HIS	B	69	42.101	3.657	-4.157	1.00	34.88
6217	CD2	HIS	B	69	41.855	4.437	-3.044	1.00	30.05
6218	C	HIS	B	69	42.579	4.910	0.768	1.00	26.86
6219	O	HIS	B	69	43.627	5.471	0.448	1.00	25.56
6220	N	GLN	B	70	42.478	4.040	1.768	1.00	28.17
6221	CA	GLN	B	70	43.647	3.358	2.332	1.00	29.07
6222	CB	GLN	B	70	43.668	3.454	3.850	1.00	29.99
6223	CG	GLN	B	70	44.701	2.555	4.518	1.00	33.81
6224	CD	GLN	B	70	44.910	2.862	6.000	1.00	39.52
6225	OE1	GLN	B	70	45.566	3.874	6.340	1.00	41.72
6226	NE2	GLN	B	70	44.389	1.980	6.884	1.00	38.69
6227	C	GLN	B	70	43.488	1.918	1.957	1.00	29.00
6228	O	GLN	B	70	42.493	1.289	2.303	1.00	29.73
6229	N	SER	B	71	44.445	1.369	1.230	1.00	28.42
6230	CA	SER	B	71	44.335	-0.030	0.876	1.00	28.46
6231	CB	SER	B	71	45.407	-0.386	-0.189	1.00	28.40
6232	OG	SER	B	71	46.677	0.223	0.052	1.00	27.17
6233	C	SER	B	71	44.398	-0.984	2.134	1.00	28.61
6234	O	SER	B	71	44.614	-0.550	3.297	1.00	28.38
6235	N	ALA	B	72	44.217	-2.286	1.896	1.00	28.26
6236	CA	ALA	B	72	44.470	-3.281	2.929	1.00	27.29
6237	CB	ALA	B	72	44.017	-4.645	2.460	1.00	27.64
6238	C	ALA	B	72	45.973	-3.277	3.276	1.00	27.45
6239	O	ALA	B	72	46.369	-3.568	4.423	1.00	27.46
6240	N	ASP	B	73	46.822	-2.912	2.314	1.00	26.59
6241	CA	ASP	B	73	48.259	-2.810	2.618	1.00	26.08
6242	CB	ASP	B	73	49.167	-2.961	1.372	1.00	27.15
6243	CG	ASP	B	73	48.392	-3.209	0.080	1.00	28.51
6244	OD1	ASP	B	73	48.632	-4.285	-0.514	1.00	30.48
6245	OD2	ASP	B	73	47.561	-2.398	-0.415	1.00	27.52
6246	C	ASP	B	73	48.523	-1.501	3.379	1.00	24.84
6247	O	ASP	B	73	49.638	-1.176	3.732	1.00	24.49
6248	N	ASN	B	74	47.428	-0.852	3.717	1.00	23.96
6249	CA	ASN	B	74	47.328	0.504	4.267	1.00	23.52
6250	CB	ASN	B	74	47.048	0.509	5.808	1.00	23.36
6251	CG	ASN	B	74	48.038	-0.425	6.665	1.00	23.95
6252	OD1	ASN	B	74	47.892	-0.491	7.885	1.00	21.07
6253	ND2	ASN	B	74	49.012	-1.062	6.038	1.00	19.43
6254	C	ASN	B	74	48.353	1.542	3.779	1.00	23.00
6255	O	ASN	B	74	49.149	2.061	4.555	1.00	23.34
6256	N	ASN	B	75	48.280	1.838	2.469	1.00	21.95
6257	CA	ASN	B	75	49.100	2.882	1.839	1.00	19.96
6258	CB	ASN	B	75	49.604	2.468	0.477	1.00	20.23
6259	CG	ASN	B	75	50.585	1.402	0.537	1.00	21.06
6260	OD1	ASN	B	75	50.257	0.244	0.305	1.00	25.18
6261	ND2	ASN	B	75	51.808	1.749	0.823	1.00	24.13
6262	C	ASN	B	75	48.478	4.263	1.600	1.00	17.80
6263	O	ASN	B	75	49.216	5.203	1.494	1.00	17.24
6264	N	ILE	B	76	47.187	4.436	1.475	1.00	15.08

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6265	CA	ILE	B	76	46.692	5.762	0.958	1.00	14.23
6266	CB	ILE	B	76	47.268	7.161	1.571	1.00	13.95
6267	CG1	ILE	B	76	47.818	7.144	3.026	1.00	14.80
6268	CD1	ILE	B	76	46.927	6.415	4.043	1.00	14.82
6269	CG2	ILE	B	76	46.145	8.251	1.513	1.00	7.71
6270	C	ILE	B	76	46.871	5.912	-0.543	1.00	14.78
6271	O	ILE	B	76	47.870	6.470	-1.026	1.00	15.53
6272	N	VAL	B	77	45.871	5.450	-1.277	1.00	14.24
6273	CA	VAL	B	77	45.851	5.587	-2.702	1.00	13.76
6274	CB	VAL	B	77	45.529	4.222	-3.310	1.00	14.97
6275	CG1	VAL	B	77	45.747	4.192	-4.810	1.00	13.37
6276	CG2	VAL	B	77	46.528	3.147	-2.706	1.00	12.24
6277	C	VAL	B	77	44.952	6.765	-3.109	1.00	13.89
6278	O	VAL	B	77	43.939	7.106	-2.459	1.00	14.43
6279	N	LEU	B	78	45.411	7.483	-4.113	1.00	13.07
6280	CA	LEU	B	78	44.600	8.543	-4.658	1.00	12.35
6281	CB	LEU	B	78	45.448	9.802	-4.959	1.00	11.89
6282	CG	LEU	B	78	45.419	10.671	-6.228	1.00	11.48
6283	CD1	LEU	B	78	44.151	10.580	-7.132	1.00	13.94
6284	CD2	LEU	B	78	45.737	12.143	-5.899	1.00	8.98
6285	C	LEU	B	78	44.064	7.866	-5.875	1.00	11.79
6286	O	LEU	B	78	44.889	7.394	-6.705	1.00	11.59
6287	N	TYR	B	79	42.722	7.818	-5.983	1.00	10.89
6288	CA	TYR	B	79	42.021	7.282	-7.141	1.00	10.99
6289	CB	TYR	B	79	40.979	6.217	-6.741	1.00	10.58
6290	CG	TYR	B	79	40.150	5.604	-7.924	1.00	12.66
6291	CD1	TYR	B	79	40.730	4.955	-9.010	1.00	13.06
6292	CE1	TYR	B	79	39.908	4.393	-10.081	1.00	14.88
6293	CZ	TYR	B	79	38.534	4.471	-10.015	1.00	14.95
6294	OH	TYR	B	79	37.688	3.972	-11.000	1.00	14.86
6295	CE2	TYR	B	79	37.975	5.082	-8.950	1.00	14.02
6296	CD2	TYR	B	79	38.776	5.655	-7.924	1.00	12.62
6297	C	TYR	B	79	41.342	8.344	-7.964	1.00	11.61
6298	O	TYR	B	79	40.567	9.171	-7.478	1.00	12.59
6299	N	ASN	B	80	41.539	8.247	-9.259	1.00	12.12
6300	CA	ASN	B	80	40.965	9.202	-10.163	1.00	11.92
6301	CB	ASN	B	80	42.025	9.634	-11.134	1.00	11.35
6302	CG	ASN	B	80	41.634	10.851	-11.884	1.00	14.57
6303	OD1	ASN	B	80	42.419	11.834	-11.935	1.00	18.90
6304	ND2	ASN	B	80	40.435	10.813	-12.516	1.00	11.89
6305	C	ASN	B	80	39.829	8.485	-10.870	1.00	11.36
6306	O	ASN	B	80	40.085	7.555	-11.588	1.00	7.86
6307	N	ILE	B	81	38.585	8.906	-10.635	1.00	10.85
6308	CA	ILE	B	81	37.447	8.209	-11.181	1.00	11.29
6309	CB	ILE	B	81	36.083	8.831	-10.671	1.00	11.49
6310	CG1	ILE	B	81	36.114	9.183	-9.193	1.00	10.23
6311	CD1	ILE	B	81	34.742	9.290	-8.519	1.00	7.03
6312	CG2	ILE	B	81	34.916	7.856	-10.983	1.00	11.87
6313	C	ILE	B	81	37.410	8.284	-12.690	1.00	11.70
6314	O	ILE	B	81	37.011	7.300	-13.332	1.00	12.68
6315	N	GLU	B	82	37.718	9.474	-13.241	1.00	12.41

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6316	CA	GLU	B	82	37.680	9.747	-14.689	1.00	13.72
6317	CB	GLU	B	82	37.995	11.238	-15.025	1.00	14.61
6318	CG	GLU	B	82	36.875	12.286	-14.918	1.00	18.83
6319	CD	GLU	B	82	37.265	13.763	-15.395	1.00	26.63
6320	OE1	GLU	B	82	36.741	14.786	-14.841	1.00	27.46
6321	OE2	GLU	B	82	38.061	13.967	-16.360	1.00	30.45
6322	C	GLU	B	82	38.716	8.841	-15.364	1.00	13.14
6323	O	GLU	B	82	38.448	8.238	-16.414	1.00	13.43
6324	N	THR	B	83	39.915	8.728	-14.801	1.00	13.57
6325	CA	THR	B	83	40.976	8.050	-15.572	1.00	14.25
6326	CB	THR	B	83	42.378	8.713	-15.364	1.00	14.27
6327	OG1	THR	B	83	42.844	8.581	-14.009	1.00	10.90
6328	CG2	THR	B	83	42.273	10.221	-15.563	1.00	12.88
6329	C	THR	B	83	40.993	6.528	-15.362	1.00	15.75
6330	O	THR	B	83	41.334	5.795	-16.220	1.00	16.13
6331	N	GLY	B	84	40.513	6.042	-14.237	1.00	16.76
6332	CA	GLY	B	84	40.816	4.634	-13.867	1.00	18.77
6333	C	GLY	B	84	42.138	4.519	-13.118	1.00	19.56
6334	O	GLY	B	84	42.338	3.538	-12.437	1.00	21.38
6335	N	GLN	B	85	42.961	5.558	-13.109	1.00	18.97
6336	CA	GLN	B	85	44.315	5.450	-12.529	1.00	18.58
6337	CB	GLN	B	85	45.278	6.428	-13.213	1.00	18.97
6338	CG	GLN	B	85	46.047	5.822	-14.444	1.00	19.42
6339	CD	GLN	B	85	46.075	4.204	-14.509	1.00	21.24
6340	OE1	GLN	B	85	45.332	3.582	-15.296	1.00	21.26
6341	NE2	GLN	B	85	46.890	3.575	-13.634	1.00	23.70
6342	C	GLN	B	85	44.356	5.622	-10.982	1.00	17.53
6343	O	GLN	B	85	43.492	6.316	-10.390	1.00	17.61
6344	N	SER	B	86	45.335	4.949	-10.343	1.00	16.63
6345	CA	SER	B	86	45.531	4.944	-8.887	1.00	16.32
6346	CB	SER	B	86	45.129	3.620	-8.286	1.00	16.50
6347	OG	SER	B	86	43.873	3.170	-8.788	1.00	18.32
6348	C	SER	B	86	46.962	5.146	-8.625	1.00	16.21
6349	O	SER	B	86	47.794	4.581	-9.313	1.00	16.90
6350	N	TYR	B	87	47.278	5.907	-7.602	1.00	15.95
6351	CA	TYR	B	87	48.675	6.257	-7.287	1.00	16.25
6352	CB	TYR	B	87	49.027	7.655	-7.828	1.00	17.10
6353	CG	TYR	B	87	48.582	8.018	-9.207	1.00	17.67
6354	CD1	TYR	B	87	49.529	8.232	-10.212	1.00	18.04
6355	CE1	TYR	B	87	49.125	8.607	-11.512	1.00	20.11
6356	CZ	TYR	B	87	47.777	8.797	-11.795	1.00	19.97
6357	OH	TYR	B	87	47.427	9.111	-13.080	1.00	21.28
6358	CE2	TYR	B	87	46.822	8.598	-10.797	1.00	18.08
6359	CD2	TYR	B	87	47.235	8.218	-9.504	1.00	16.38
6360	C	TYR	B	87	48.978	6.370	-5.773	1.00	15.37
6361	O	TYR	B	87	48.557	7.327	-5.143	1.00	14.05
6362	N	THR	B	88	49.778	5.508	-5.174	1.00	13.72
6363	CA	THR	B	88	49.862	5.679	-3.749	1.00	12.75
6364	CB	THR	B	88	50.394	4.435	-3.079	1.00	12.47
6365	OG1	THR	B	88	51.671	4.725	-2.602	1.00	11.17
6366	CG2	THR	B	88	50.537	3.201	-4.046	1.00	13.36

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6367	C	THR	B	88	50.635	6.943	-3.365	1.00	12.52
6368	O	THR	B	88	51.714	7.174	-3.862	1.00	13.21
6369	N	ILE	B	89	50.057	7.780	-2.510	1.00	12.77
6370	CA	ILE	B	89	50.713	9.053	-2.129	1.00	13.61
6371	CB	ILE	B	89	49.870	10.327	-1.861	1.00	11.73
6372	CG1	ILE	B	89	48.451	10.162	-1.463	1.00	11.74
6373	CD1	ILE	B	89	47.964	11.687	-1.188	1.00	16.94
6374	CG2	ILE	B	89	49.928	11.342	-2.950	1.00	14.43
6375	C	ILE	B	89	51.423	9.082	-0.832	1.00	13.65
6376	O	ILE	B	89	52.426	9.824	-0.734	1.00	14.42
6377	N	LEU	B	90	50.838	8.473	0.199	1.00	13.43
6378	CA	LEU	B	90	51.639	8.201	1.387	1.00	14.82
6379	CB	LEU	B	90	50.943	8.740	2.587	1.00	13.04
6380	CG	LEU	B	90	51.557	10.087	2.949	1.00	13.88
6381	CD1	LEU	B	90	50.864	10.599	4.175	1.00	19.10
6382	CD2	LEU	B	90	53.040	10.065	3.211	1.00	12.64
6383	C	LEU	B	90	51.951	6.725	1.571	1.00	15.81
6384	O	LEU	B	90	51.048	5.969	1.740	1.00	17.70
6385	N	SER	B	91	53.201	6.302	1.604	1.00	16.41
6386	CA	SER	B	91	53.419	4.839	1.757	1.00	17.62
6387	CB	SER	B	91	54.834	4.498	1.537	1.00	18.20
6388	OG	SER	B	91	55.529	5.034	2.633	1.00	22.27
6389	C	SER	B	91	53.051	4.286	3.130	1.00	18.03
6390	O	SER	B	91	53.176	5.038	4.154	1.00	17.17
6391	N	ASN	B	92	52.535	3.027	3.113	1.00	19.57
6392	CA	ASN	B	92	52.230	2.253	4.356	1.00	19.96
6393	CB	ASN	B	92	52.133	0.618	4.250	1.00	20.34
6394	CG	ASN	B	92	53.334	-0.067	3.438	1.00	21.95
6395	OD1	ASN	B	92	54.446	0.529	3.141	1.00	28.45
6396	ND2	ASN	B	92	53.099	-1.298	3.069	1.00	31.39
6397	C	ASN	B	92	53.177	2.689	5.436	1.00	18.39
6398	O	ASN	B	92	52.769	3.075	6.558	1.00	16.15
6399	N	ARG	B	93	54.448	2.724	5.124	1.00	18.02
6400	CA	ARG	B	93	55.328	2.879	6.255	1.00	18.77
6401	CB	ARG	B	93	56.020	1.533	6.466	1.00	20.13
6402	CG	ARG	B	93	54.971	0.346	7.054	1.00	24.61
6403	CD	ARG	B	93	55.241	-1.217	6.530	1.00	35.35
6404	NE	ARG	B	93	54.914	-2.157	7.670	1.00	44.58
6405	CZ	ARG	B	93	53.697	-2.567	8.141	1.00	50.19
6406	NH1	ARG	B	93	53.244	-2.263	9.453	1.00	51.81
6407	NH2	ARG	B	93	52.929	-3.277	7.221	1.00	50.72
6408	C	ARG	B	93	56.149	4.174	6.426	1.00	17.44
6409	O	ARG	B	93	57.003	4.213	7.185	1.00	15.19
6410	N	THR	B	94	55.755	5.272	5.787	1.00	15.87
6411	CA	THR	B	94	56.210	6.607	6.109	1.00	15.00
6412	CB	THR	B	94	56.322	7.434	4.795	1.00	14.77
6413	OG1	THR	B	94	57.687	7.323	4.333	1.00	18.62
6414	CG2	THR	B	94	56.022	8.992	4.991	1.00	12.81
6415	C	THR	B	94	55.125	7.139	7.035	1.00	15.53
6416	O	THR	B	94	55.157	8.267	7.580	1.00	14.68
6417	N	MET	B	95	54.131	6.287	7.183	1.00	15.62

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6418	CA	MET	B	95	52.996	6.501	8.067	1.00	15.26
6419	CB	MET	B	95	51.820	5.917	7.327	1.00	12.74
6420	CG	MET	B	95	50.586	6.003	7.922	1.00	17.98
6421	SD	MET	B	95	49.659	7.381	7.120	1.00	15.07
6422	CE	MET	B	95	48.475	7.511	8.212	1.00	21.38
6423	C	MET	B	95	53.302	5.723	9.390	1.00	16.27
6424	O	MET	B	95	52.923	6.181	10.455	1.00	17.50
6425	N	LYS	B	96	54.050	4.600	9.356	1.00	17.30
6426	CA	LYS	B	96	54.127	3.981	10.664	1.00	19.20
6427	CB	LYS	B	96	54.472	2.443	10.454	1.00	17.72
6428	CG	LYS	B	96	53.682	1.360	11.357	1.00	19.13
6429	CD	LYS	B	96	54.284	1.016	12.835	1.00	20.03
6430	CE	LYS	B	96	53.161	0.809	13.976	1.00	19.74
6431	NZ	LYS	B	96	51.820	1.594	13.817	1.00	21.58
6432	C	LYS	B	96	55.232	4.867	11.129	1.00	19.80
6433	O	LYS	B	96	55.482	4.908	12.318	1.00	19.74
6434	N	SER	B	97	56.047	5.342	10.169	1.00	19.41
6435	CA	SER	B	97	57.192	6.339	10.436	1.00	19.12
6436	CB	SER	B	97	57.033	7.454	9.406	1.00	19.78
6437	OG	SER	B	97	58.314	8.091	9.262	1.00	21.17
6438	C	SER	B	97	57.010	6.992	11.778	1.00	18.85
6439	O	SER	B	97	57.915	7.305	12.562	1.00	17.42
6440	N	VAL	B	98	55.730	7.175	11.980	1.00	17.46
6441	CA	VAL	B	98	55.210	8.009	13.078	1.00	15.84
6442	CB	VAL	B	98	55.014	9.527	12.610	1.00	16.29
6443	CG1	VAL	B	98	56.264	10.081	11.997	1.00	14.44
6444	CG2	VAL	B	98	54.068	9.585	11.592	1.00	15.25
6445	C	VAL	B	98	53.904	7.443	13.731	1.00	15.32
6446	O	VAL	B	98	53.173	8.151	14.253	1.00	15.67
6447	N	ASN	B	99	53.775	6.125	13.892	1.00	15.98
6448	CA	ASN	B	99	52.455	5.452	14.147	1.00	16.57
6449	CB	ASN	B	99	52.179	4.800	15.587	1.00	15.64
6450	CG	ASN	B	99	53.407	4.465	16.378	1.00	20.28
6451	OD1	ASN	B	99	54.339	3.846	15.871	1.00	19.71
6452	ND2	ASN	B	99	53.386	4.808	17.687	1.00	22.94
6453	C	ASN	B	99	51.342	6.446	13.891	1.00	14.97
6454	O	ASN	B	99	50.656	6.754	14.835	1.00	16.23
6455	N	ALA	B	100	51.118	6.932	12.675	1.00	14.83
6456	CA	ALA	B	100	49.970	7.844	12.495	1.00	16.00
6457	CB	ALA	B	100	50.201	8.854	11.384	1.00	16.23
6458	C	ALA	B	100	48.649	7.082	12.264	1.00	15.38
6459	O	ALA	B	100	48.641	6.061	11.594	1.00	16.91
6460	N	SER	B	101	47.586	7.597	12.863	1.00	14.93
6461	CA	SER	B	101	46.258	6.978	12.927	1.00	13.07
6462	CB	SER	B	101	45.539	7.391	14.254	1.00	11.38
6463	OG	SER	B	101	46.344	7.210	15.488	1.00	13.22
6464	C	SER	B	101	45.463	7.452	11.730	1.00	13.21
6465	O	SER	B	101	44.538	6.785	11.289	1.00	12.82
6466	N	ASN	B	102	45.838	8.626	11.194	1.00	13.10
6467	CA	ASN	B	102	45.034	9.319	10.192	1.00	11.87
6468	CB	ASN	B	102	43.952	9.941	10.985	1.00	12.06

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6469	CG	ASN	B	102	42.852	10.409	10.212	1.00	11.40
6470	OD1	ASN	B	102	42.037	11.165	10.764	1.00	22.16
6471	ND2	ASN	B	102	42.747	10.041	8.981	1.00	10.00
6472	C	ASN	B	102	45.855	10.359	9.448	1.00	11.84
6473	O	ASN	B	102	46.952	10.601	9.830	1.00	12.55
6474	N	TYR	B	103	45.369	10.955	8.345	1.00	11.00
6475	CA	TYR	B	103	46.177	11.934	7.541	1.00	10.45
6476	CB	TYR	B	103	46.800	11.275	6.330	1.00	9.88
6477	CG	TYR	B	103	45.735	10.652	5.490	1.00	12.06
6478	CD1	TYR	B	103	45.367	9.337	5.722	1.00	15.49
6479	CE1	TYR	B	103	44.306	8.761	5.042	1.00	17.57
6480	CZ	TYR	B	103	43.608	9.448	4.077	1.00	16.08
6481	OH	TYR	B	103	42.623	8.742	3.456	1.00	21.68
6482	CE2	TYR	B	103	43.917	10.781	3.781	1.00	13.37
6483	CD2	TYR	B	103	45.012	11.396	4.515	1.00	14.70
6484	C	TYR	B	103	45.237	12.941	6.982	1.00	11.02
6485	O	TYR	B	103	44.071	12.692	6.995	1.00	9.88
6486	N	GLY	B	104	45.778	14.034	6.412	1.00	11.56
6487	CA	GLY	B	104	45.034	15.131	5.718	1.00	11.47
6488	C	GLY	B	104	45.967	15.857	4.691	1.00	11.96
6489	O	GLY	B	104	47.056	16.454	5.082	1.00	12.42
6490	N	LEU	B	105	45.597	15.737	3.399	1.00	12.68
6491	CA	LEU	B	105	46.282	16.286	2.199	1.00	13.16
6492	CB	LEU	B	105	45.670	15.681	0.931	1.00	12.94
6493	CG	LEU	B	105	46.552	15.379	-0.315	1.00	14.15
6494	CD1	LEU	B	105	45.821	15.610	-1.587	1.00	15.12
6495	CD2	LEU	B	105	47.951	16.029	-0.398	1.00	11.49
6496	C	LEU	B	105	45.874	17.691	2.182	1.00	14.98
6497	O	LEU	B	105	44.687	17.905	2.243	1.00	13.33
6498	N	SER	B	106	46.800	18.670	2.102	1.00	15.55
6499	CA	SER	B	106	46.372	20.091	1.912	1.00	15.27
6500	CB	SER	B	106	47.581	20.983	1.821	1.00	15.02
6501	OG	SER	B	106	48.626	20.464	0.914	1.00	14.43
6502	C	SER	B	106	45.621	20.183	0.617	1.00	16.18
6503	O	SER	B	106	45.938	19.440	-0.293	1.00	16.76
6504	N	PRO	B	107	44.635	21.037	0.452	1.00	18.60
6505	CA	PRO	B	107	43.791	20.907	-0.744	1.00	18.75
6506	CB	PRO	B	107	42.690	21.982	-0.472	1.00	21.52
6507	CG	PRO	B	107	43.556	23.084	0.260	1.00	20.43
6508	CD	PRO	B	107	44.167	22.179	1.304	1.00	18.53
6509	C	PRO	B	107	44.632	21.189	-2.030	1.00	20.42
6510	O	PRO	B	107	44.362	20.642	-3.149	1.00	20.73
6511	N	ASP	B	108	45.699	21.985	-1.877	1.00	19.32
6512	CA	ASP	B	108	46.494	22.359	-3.036	1.00	16.87
6513	CB	ASP	B	108	46.709	23.917	-3.195	1.00	17.43
6514	CG	ASP	B	108	45.255	24.793	-3.764	1.00	20.11
6515	OD1	ASP	B	108	44.040	24.335	-3.756	1.00	11.00
6516	OD2	ASP	B	108	45.300	25.989	-4.257	1.00	22.02
6517	C	ASP	B	108	47.709	21.454	-3.003	1.00	16.43
6518	O	ASP	B	108	48.683	21.689	-3.598	1.00	15.35
6519	N	ARG	B	109	47.536	20.315	-2.350	1.00	15.62

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6520	CA	ARG	B	109	48.182	19.058	-2.697	1.00	13.52
6521	CB	ARG	B	109	47.885	18.767	-4.157	1.00	14.33
6522	CG	ARG	B	109	46.420	18.331	-4.475	1.00	13.15
6523	CD	ARG	B	109	46.246	16.848	-4.631	1.00	13.63
6524	NE	ARG	B	109	46.031	16.388	-6.028	1.00	13.65
6525	CZ	ARG	B	109	44.862	16.514	-6.697	1.00	9.89
6526	NH1	ARG	B	109	44.752	16.049	-7.926	1.00	4.31
6527	NH2	ARG	B	109	43.809	17.068	-6.146	1.00	2.83
6528	C	ARG	B	109	49.689	18.978	-2.413	1.00	14.36
6529	O	ARG	B	109	50.282	17.929	-2.449	1.00	14.59
6530	N	GLN	B	110	50.338	20.061	-2.068	1.00	13.97
6531	CA	GLN	B	110	51.744	19.957	-1.804	1.00	12.93
6532	CB	GLN	B	110	52.491	21.249	-2.276	1.00	15.43
6533	CG	GLN	B	110	52.030	22.626	-1.916	1.00	11.83
6534	CD	GLN	B	110	52.885	23.749	-2.544	1.00	16.63
6535	OE1	GLN	B	110	53.717	23.521	-3.495	1.00	19.76
6536	NE2	GLN	B	110	52.707	24.995	-1.991	1.00	18.16
6537	C	GLN	B	110	52.230	19.460	-0.436	1.00	12.80
6538	O	GLN	B	110	53.451	19.055	-0.310	1.00	14.63
6539	N	PHE	B	111	51.325	19.362	0.535	1.00	12.01
6540	CA	PHE	B	111	51.604	18.752	1.840	1.00	12.84
6541	CB	PHE	B	111	51.647	19.829	2.871	1.00	12.36
6542	CG	PHE	B	111	52.672	20.900	2.603	1.00	13.67
6543	CD1	PHE	B	111	52.305	22.162	2.287	1.00	15.11
6544	CE1	PHE	B	111	53.265	23.142	2.079	1.00	12.73
6545	CZ	PHE	B	111	54.492	22.889	2.209	1.00	12.97
6546	CE2	PHE	B	111	54.855	21.631	2.549	1.00	14.46
6547	CD2	PHE	B	111	53.931	20.669	2.793	1.00	8.99
6548	C	PHE	B	111	50.585	17.709	2.335	1.00	12.98
6549	O	PHE	B	111	49.501	17.530	1.759	1.00	14.10
6550	N	VAL	B	112	50.917	17.035	3.425	1.00	13.23
6551	CA	VAL	B	112	49.939	16.176	4.127	1.00	13.08
6552	CB	VAL	B	112	50.025	14.673	3.761	1.00	13.93
6553	CG1	VAL	B	112	48.717	14.091	3.484	1.00	10.20
6554	CG2	VAL	B	112	50.934	14.534	2.710	1.00	6.61
6555	C	VAL	B	112	50.382	16.089	5.543	1.00	13.44
6556	O	VAL	B	112	51.429	15.502	5.758	1.00	14.01
6557	N	TYR	B	113	49.560	16.528	6.472	1.00	11.75
6558	CA	TYR	B	113	49.719	16.216	7.871	1.00	10.83
6559	CB	TYR	B	113	48.829	17.104	8.712	1.00	8.74
6560	CG	TYR	B	113	47.347	16.860	8.800	1.00	8.97
6561	CD1	TYR	B	113	46.457	17.784	8.367	1.00	8.90
6562	CE1	TYR	B	113	45.151	17.581	8.520	1.00	2.72
6563	CZ	TYR	B	113	44.695	16.497	9.153	1.00	3.26
6564	OH	TYR	B	113	43.319	16.254	9.292	1.00	6.97
6565	CE2	TYR	B	113	45.561	15.647	9.629	1.00	4.08
6566	CD2	TYR	B	113	46.837	15.815	9.463	1.00	6.05
6567	C	TYR	B	113	49.404	14.770	8.160	1.00	10.09
6568	O	TYR	B	113	48.439	14.274	7.608	1.00	10.02
6569	N	LEU	B	114	50.257	14.130	8.974	1.00	9.36
6570	CA	LEU	B	114	50.003	12.830	9.585	1.00	10.68

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6571	CB	LEU	B	114	51.172	11.936	9.442	1.00	11.46
6572	CG	LEU	B	114	51.712	11.751	8.018	1.00	14.99
6573	CD1	LEU	B	114	53.157	11.894	8.173	1.00	16.37
6574	CD2	LEU	B	114	51.444	10.364	7.519	1.00	17.99
6575	C	LEU	B	114	49.743	13.023	11.085	1.00	9.79
6576	O	LEU	B	114	50.579	13.629	11.750	1.00	9.61
6577	N	GLU	B	115	48.587	12.511	11.578	1.00	6.34
6578	CA	GLU	B	115	48.047	12.804	12.919	1.00	6.44
6579	CB	GLU	B	115	46.535	12.799	12.826	1.00	7.07
6580	CG	GLU	B	115	45.742	13.242	14.019	1.00	7.63
6581	CD	GLU	B	115	44.276	13.328	13.703	1.00	13.31
6582	OE1	GLU	B	115	43.671	12.199	13.511	1.00	15.47
6583	OE2	GLU	B	115	43.753	14.509	13.635	1.00	14.42
6584	C	GLU	B	115	48.478	11.604	13.715	1.00	6.98
6585	O	GLU	B	115	48.245	10.494	13.227	1.00	7.78
6586	N	SER	B	116	49.053	11.798	14.902	1.00	6.07
6587	CA	SER	B	116	49.359	10.663	15.743	1.00	8.52
6588	CB	SER	B	116	50.872	10.318	15.760	1.00	7.22
6589	OG	SER	B	116	51.413	10.216	14.470	1.00	14.26
6590	C	SER	B	116	49.004	10.858	17.176	1.00	7.65
6591	O	SER	B	116	48.534	11.893	17.522	1.00	6.55
6592	N	ASP	B	117	49.451	9.884	18.009	1.00	8.23
6593	CA	ASP	B	117	49.334	9.948	19.447	1.00	7.78
6594	CB	ASP	B	117	50.382	10.901	20.084	1.00	6.15
6595	CG	ASP	B	117	51.841	10.422	19.989	1.00	10.52
6596	OD1	ASP	B	117	52.237	9.174	20.127	1.00	14.63
6597	OD2	ASP	B	117	52.743	11.300	19.935	1.00	13.66
6598	C	ASP	B	117	47.864	10.454	19.693	1.00	8.33
6599	O	ASP	B	117	47.630	11.464	20.415	1.00	6.73
6600	N	TYR	B	118	46.886	9.799	19.050	1.00	8.64
6601	CA	TYR	B	118	45.457	10.192	19.265	1.00	10.72
6602	CB	TYR	B	118	44.528	9.226	18.519	1.00	12.16
6603	CG	TYR	B	118	43.045	9.567	18.524	1.00	14.77
6604	CD1	TYR	B	118	42.558	10.570	17.741	1.00	15.68
6605	CE1	TYR	B	118	41.207	10.834	17.680	1.00	22.31
6606	CZ	TYR	B	118	40.332	10.134	18.472	1.00	25.12
6607	OH	TYR	B	118	38.995	10.433	18.413	1.00	28.88
6608	CE2	TYR	B	118	40.780	9.094	19.231	1.00	22.97
6609	CD2	TYR	B	118	42.139	8.827	19.274	1.00	18.63
6610	C	TYR	B	118	45.071	10.062	20.713	1.00	10.99
6611	O	TYR	B	118	45.397	9.114	21.309	1.00	11.51
6612	N	SER	B	119	44.306	10.974	21.262	1.00	11.28
6613	CA	SER	B	119	43.974	10.986	22.699	1.00	11.28
6614	CB	SER	B	119	45.008	11.806	23.413	1.00	9.59
6615	OG	SER	B	119	44.728	11.853	24.769	1.00	11.94
6616	C	SER	B	119	42.516	11.550	22.863	1.00	12.03
6617	O	SER	B	119	42.285	12.763	22.822	1.00	11.99
6618	N	LYS	B	120	41.546	10.620	22.943	1.00	13.98
6619	CA	LYS	B	120	40.103	10.925	23.085	1.00	14.08
6620	CB	LYS	B	120	39.304	9.628	23.096	1.00	13.58
6621	CG	LYS	B	120	37.898	9.771	22.679	1.00	14.84

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6622	CD	LYS	B	120	36.954	8.690	23.121	1.00	15.63
6623	CE	LYS	B	120	35.516	9.343	23.061	1.00	20.03
6624	NZ	LYS	B	120	34.288	8.489	22.594	1.00	24.34
6625	C	LYS	B	120	39.706	11.750	24.333	1.00	15.22
6626	O	LYS	B	120	40.201	11.518	25.404	1.00	16.68
6627	N	LEU	B	121	38.802	12.689	24.160	1.00	15.01
6628	CA	LEU	B	121	38.201	13.436	25.256	1.00	15.47
6629	CB	LEU	B	121	38.414	14.893	24.971	1.00	15.55
6630	CG	LEU	B	121	38.950	15.777	26.062	1.00	18.43
6631	CD1	LEU	B	121	38.026	17.023	26.186	1.00	18.80
6632	CD2	LEU	B	121	39.147	15.086	27.421	1.00	13.27
6633	C	LEU	B	121	36.715	13.129	25.208	1.00	15.10
6634	O	LEU	B	121	36.255	12.094	25.708	1.00	16.19
6635	N	TRP	B	122	35.937	13.922	24.505	1.00	13.27
6636	CA	TRP	B	122	34.510	13.738	24.605	1.00	12.83
6637	CB	TRP	B	122	33.790	15.052	24.998	1.00	12.78
6638	CG	TRP	B	122	34.400	15.908	26.224	1.00	12.88
6639	CD1	TRP	B	122	34.689	17.294	26.218	1.00	16.08
6640	NE1	TRP	B	122	35.234	17.667	27.436	1.00	18.61
6641	CE2	TRP	B	122	35.285	16.567	28.266	1.00	10.63
6642	CD2	TRP	B	122	34.778	15.449	27.555	1.00	12.74
6643	CE3	TRP	B	122	34.720	14.205	28.209	1.00	7.58
6644	CZ3	TRP	B	122	35.154	14.103	29.518	1.00	15.04
6645	CH2	TRP	B	122	35.670	15.248	30.195	1.00	16.25
6646	CZ2	TRP	B	122	35.715	16.486	29.565	1.00	13.59
6647	C	TRP	B	122	33.955	13.018	23.364	1.00	13.06
6648	O	TRP	B	122	34.547	12.101	22.817	1.00	13.35
6649	N	ARG	B	123	32.733	13.274	22.962	1.00	14.23
6650	CA	ARG	B	123	32.246	12.547	21.781	1.00	14.99
6651	CB	ARG	B	123	30.777	12.808	21.476	1.00	14.47
6652	CG	ARG	B	123	30.280	11.923	20.387	1.00	19.05
6653	CD	ARG	B	123	28.795	11.768	20.342	1.00	24.54
6654	NE	ARG	B	123	28.232	11.905	21.695	1.00	30.77
6655	CZ	ARG	B	123	27.242	11.168	22.200	1.00	31.52
6656	NH1	ARG	B	123	26.786	11.393	23.416	1.00	28.95
6657	NH2	ARG	B	123	26.654	10.258	21.470	1.00	32.52
6658	C	ARG	B	123	33.109	12.873	20.535	1.00	15.19
6659	O	ARG	B	123	33.562	11.979	19.864	1.00	15.90
6660	N	TYR	B	124	33.423	14.138	20.309	1.00	13.56
6661	CA	TYR	B	124	34.183	14.487	19.130	1.00	12.61
6662	CB	TYR	B	124	33.451	15.623	18.500	1.00	11.35
6663	CG	TYR	B	124	32.046	15.222	18.165	1.00	16.22
6664	CD1	TYR	B	124	31.001	15.422	19.089	1.00	21.85
6665	CE1	TYR	B	124	29.726	15.055	18.783	1.00	18.69
6666	CZ	TYR	B	124	29.485	14.543	17.544	1.00	20.82
6667	OH	TYR	B	124	28.206	14.207	17.211	1.00	28.92
6668	CE2	TYR	B	124	30.472	14.398	16.625	1.00	15.80
6669	CD2	TYR	B	124	31.719	14.727	16.924	1.00	12.90
6670	C	TYR	B	124	35.599	14.913	19.378	1.00	10.78
6671	O	TYR	B	124	36.427	14.902	18.479	1.00	9.14
6672	N	SER	B	125	35.851	15.385	20.580	1.00	11.78

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6673	CA	SER	B	125	37.035	16.178	20.760	1.00	12.30
6674	CB	SER	B	125	36.889	17.355	21.793	1.00	13.31
6675	OG	SER	B	125	36.279	17.029	23.028	1.00	8.79
6676	C	SER	B	125	38.150	15.209	21.113	1.00	13.00
6677	O	SER	B	125	37.873	14.108	21.628	1.00	14.34
6678	N	TYR	B	126	39.372	15.616	20.754	1.00	11.47
6679	CA	TYR	B	126	40.579	14.774	21.031	1.00	11.71
6680	CB	TYR	B	126	40.599	13.511	20.203	1.00	8.88
6681	CG	TYR	B	126	40.769	13.734	18.732	1.00	8.48
6682	CD1	TYR	B	126	42.023	13.808	18.184	1.00	5.32
6683	CE1	TYR	B	126	42.169	13.900	16.834	1.00	3.74
6684	CZ	TYR	B	126	41.102	13.963	15.967	1.00	6.57
6685	OH	TYR	B	126	41.435	14.111	14.666	1.00	10.62
6686	CE2	TYR	B	126	39.816	13.902	16.402	1.00	2.00
6687	CD2	TYR	B	126	39.647	13.821	17.831	1.00	5.25
6688	C	TYR	B	126	41.753	15.589	20.612	1.00	12.47
6689	O	TYR	B	126	41.603	16.543	19.889	1.00	16.59
6690	N	THR	B	127	42.900	15.203	21.039	1.00	12.85
6691	CA	THR	B	127	44.122	15.895	20.760	1.00	13.35
6692	CB	THR	B	127	44.780	16.161	22.084	1.00	13.85
6693	OG1	THR	B	127	44.646	14.952	22.841	1.00	20.67
6694	CG2	THR	B	127	44.060	17.199	22.984	1.00	8.42
6695	C	THR	B	127	45.004	14.882	20.024	1.00	14.59
6696	O	THR	B	127	44.830	13.656	20.201	1.00	13.71
6697	N	ALA	B	128	46.044	15.395	19.333	1.00	14.12
6698	CA	ALA	B	128	46.982	14.557	18.590	1.00	14.25
6699	CB	ALA	B	128	46.386	14.110	17.392	1.00	14.05
6700	C	ALA	B	128	48.210	15.323	18.264	1.00	13.64
6701	O	ALA	B	128	48.230	16.507	18.431	1.00	15.61
6702	N	THR	B	129	49.269	14.655	17.856	1.00	12.68
6703	CA	THR	B	129	50.346	15.416	17.395	1.00	11.61
6704	CB	THR	B	129	51.722	14.996	18.007	1.00	13.16
6705	OG1	THR	B	129	52.578	14.353	17.067	1.00	13.70
6706	CG2	THR	B	129	51.590	13.962	19.069	1.00	11.20
6707	C	THR	B	129	50.216	15.479	15.837	1.00	11.60
6708	O	THR	B	129	49.628	14.588	15.210	1.00	10.64
6709	N	TYR	B	130	50.761	16.540	15.233	1.00	11.33
6710	CA	TYR	B	130	50.645	16.644	13.789	1.00	12.22
6711	CB	TYR	B	130	49.810	17.856	13.383	1.00	11.12
6712	CG	TYR	B	130	48.387	17.565	13.763	1.00	8.70
6713	CD1	TYR	B	130	47.549	16.860	12.908	1.00	9.26
6714	CE1	TYR	B	130	46.292	16.459	13.307	1.00	12.41
6715	CZ	TYR	B	130	45.879	16.778	14.573	1.00	7.54
6716	OH	TYR	B	130	44.661	16.458	14.968	1.00	8.71
6717	CE2	TYR	B	130	46.666	17.495	15.410	1.00	11.65
6718	CD2	TYR	B	130	47.931	17.866	15.023	1.00	13.36
6719	C	TYR	B	130	52.040	16.603	13.183	1.00	12.31
6720	O	TYR	B	130	52.943	17.053	13.722	1.00	16.44
6721	N	TYR	B	131	52.186	15.995	12.063	1.00	13.46
6722	CA	TYR	B	131	53.478	15.811	11.476	1.00	15.93
6723	CB	TYR	B	131	53.820	14.356	11.556	1.00	12.93

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6724	CG	TYR	B	131	54.474	13.974	12.825	1.00	19.08
6725	CD1	TYR	B	131	53.812	13.181	13.762	1.00	19.60
6726	CE1	TYR	B	131	54.425	12.823	14.976	1.00	15.06
6727	CZ	TYR	B	131	55.738	13.237	15.220	1.00	23.32
6728	OH	TYR	B	131	56.367	12.817	16.402	1.00	26.24
6729	CE2	TYR	B	131	56.395	14.066	14.305	1.00	17.99
6730	CD2	TYR	B	131	55.770	14.424	13.124	1.00	15.67
6731	C	TYR	B	131	53.260	16.220	10.018	1.00	17.39
6732	O	TYR	B	131	52.559	15.549	9.257	1.00	19.69
6733	N	ILE	B	132	53.811	17.320	9.587	1.00	18.21
6734	CA	ILE	B	132	53.548	17.648	8.227	1.00	18.79
6735	CB	ILE	B	132	53.018	19.051	8.091	1.00	19.67
6736	CG1	ILE	B	132	53.670	19.813	6.981	1.00	19.92
6737	CD1	ILE	B	132	52.601	20.527	6.185	1.00	23.36
6738	CG2	ILE	B	132	53.062	19.865	9.397	1.00	22.95
6739	C	ILE	B	132	54.699	17.220	7.317	1.00	17.42
6740	O	ILE	B	132	55.854	17.375	7.595	1.00	17.77
6741	N	TYR	B	133	54.296	16.739	6.179	1.00	16.83
6742	CA	TYR	B	133	55.146	16.070	5.242	1.00	16.65
6743	CB	TYR	B	133	54.636	14.662	5.065	1.00	15.73
6744	CG	TYR	B	133	55.532	13.784	4.251	1.00	19.53
6745	CD1	TYR	B	133	55.168	13.427	2.962	1.00	20.80
6746	CE1	TYR	B	133	55.931	12.598	2.222	1.00	17.90
6747	CZ	TYR	B	133	57.053	12.081	2.757	1.00	18.00
6748	OH	TYR	B	133	57.783	11.273	1.951	1.00	12.03
6749	CE2	TYR	B	133	57.433	12.434	4.042	1.00	18.32
6750	CD2	TYR	B	133	56.677	13.275	4.771	1.00	12.24
6751	C	TYR	B	133	55.057	16.733	3.894	1.00	15.65
6752	O	TYR	B	133	53.942	16.967	3.387	1.00	17.03
6753	N	ASP	B	134	56.255	16.983	3.341	1.00	15.59
6754	CA	ASP	B	134	56.476	17.615	2.047	1.00	14.87
6755	CB	ASP	B	134	57.931	18.251	1.913	1.00	16.32
6756	CG	ASP	B	134	58.043	19.199	0.701	1.00	19.04
6757	OD1	ASP	B	134	57.094	19.375	-0.152	1.00	14.30
6758	OD2	ASP	B	134	58.951	20.004	0.663	1.00	27.51
6759	C	ASP	B	134	56.427	16.634	0.954	1.00	14.47
6760	O	ASP	B	134	57.403	16.135	0.662	1.00	12.85
6761	N	LEU	B	135	55.296	16.422	0.309	1.00	13.75
6762	CA	LEU	B	135	55.189	15.498	-0.805	1.00	13.08
6763	CB	LEU	B	135	53.814	15.589	-1.389	1.00	12.14
6764	CG	LEU	B	135	52.813	15.017	-0.387	1.00	11.55
6765	CD1	LEU	B	135	51.394	15.487	-0.744	1.00	12.40
6766	CD2	LEU	B	135	52.909	13.439	-0.334	1.00	11.18
6767	C	LEU	B	135	56.225	15.652	-1.932	1.00	13.70
6768	O	LEU	B	135	56.664	14.660	-2.458	1.00	12.66
6769	N	SER	B	136	56.602	16.886	-2.275	1.00	14.54
6770	CA	SER	B	136	57.536	17.159	-3.377	1.00	13.23
6771	CB	SER	B	136	57.447	18.606	-3.838	1.00	12.52
6772	OG	SER	B	136	56.121	19.155	-3.731	1.00	16.03
6773	C	SER	B	136	58.984	16.852	-3.006	1.00	14.42
6774	O	SER	B	136	59.816	16.362	-3.879	1.00	13.38

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6775	N	ASN	B	137	59.398	17.118	-1.775	1.00	13.99
6776	CA	ASN	B	137	60.802	16.728	-1.531	1.00	14.35
6777	CB	ASN	B	137	61.551	17.656	-0.574	1.00	14.35
6778	CG	ASN	B	137	61.083	19.134	-0.652	1.00	18.36
6779	OD1	ASN	B	137	60.913	19.787	0.403	1.00	13.92
6780	ND2	ASN	B	137	60.842	19.650	-1.856	1.00	20.48
6781	C	ASN	B	137	60.794	15.247	-1.124	1.00	13.79
6782	O	ASN	B	137	61.524	14.416	-1.643	1.00	15.00
6783	N	GLY	B	138	59.882	14.904	-0.263	1.00	12.75
6784	CA	GLY	B	138	59.577	13.530	0.069	1.00	12.50
6785	C	GLY	B	138	60.105	13.431	1.459	1.00	13.47
6786	O	GLY	B	138	60.721	12.425	1.838	1.00	14.40
6787	N	GLU	B	139	59.880	14.504	2.225	1.00	12.63
6788	CA	GLU	B	139	60.535	14.669	3.518	1.00	14.27
6789	CB	GLU	B	139	61.946	15.171	3.282	1.00	14.11
6790	CG	GLU	B	139	62.068	16.655	2.968	1.00	16.57
6791	CD	GLU	B	139	63.556	17.026	2.844	1.00	21.50
6792	OE1	GLU	B	139	63.938	18.194	3.137	1.00	21.64
6793	OE2	GLU	B	139	64.353	16.108	2.517	1.00	23.53
6794	C	GLU	B	139	59.772	15.525	4.550	1.00	13.36
6795	O	GLU	B	139	59.181	16.532	4.206	1.00	16.68
6796	N	PHE	B	140	59.718	15.067	5.801	1.00	12.70
6797	CA	PHE	B	140	59.020	15.754	6.879	1.00	11.77
6798	CB	PHE	B	140	59.171	14.932	8.156	1.00	12.03
6799	CG	PHE	B	140	58.177	13.870	8.254	1.00	10.89
6800	CD1	PHE	B	140	56.851	14.168	8.228	1.00	13.75
6801	CE1	PHE	B	140	55.936	13.208	8.246	1.00	11.60
6802	CZ	PHE	B	140	56.279	11.892	8.286	1.00	13.15
6803	CE2	PHE	B	140	57.568	11.556	8.256	1.00	9.43
6804	CD2	PHE	B	140	58.542	12.558	8.241	1.00	15.55
6805	C	PHE	B	140	59.469	17.213	7.076	1.00	12.11
6806	O	PHE	B	140	60.623	17.474	7.015	1.00	11.11
6807	N	VAL	B	141	58.553	18.149	7.278	1.00	11.03
6808	CA	VAL	B	141	58.908	19.580	7.368	1.00	12.42
6809	CB	VAL	B	141	57.665	20.474	7.116	1.00	12.31
6810	CG1	VAL	B	141	58.058	21.963	7.115	1.00	10.47
6811	CG2	VAL	B	141	56.995	20.057	5.790	1.00	7.49
6812	C	VAL	B	141	59.496	20.054	8.721	1.00	15.25
6813	O	VAL	B	141	58.854	19.872	9.789	1.00	16.68
6814	N	ARG	B	142	60.673	20.704	8.694	1.00	17.46
6815	CA	ARG	B	142	61.458	20.730	9.910	1.00	19.40
6816	CB	ARG	B	142	62.741	19.825	9.787	1.00	20.38
6817	CG	ARG	B	142	62.423	18.236	9.304	1.00	25.82
6818	CD	ARG	B	142	63.336	16.996	9.818	1.00	32.34
6819	NE	ARG	B	142	62.600	15.695	10.014	1.00	37.72
6820	CZ	ARG	B	142	61.637	15.433	10.974	1.00	40.53
6821	NH1	ARG	B	142	61.254	16.376	11.853	1.00	42.87
6822	NH2	ARG	B	142	61.033	14.221	11.056	1.00	41.67
6823	C	ARG	B	142	61.633	22.098	10.572	1.00	18.88
6824	O	ARG	B	142	61.628	22.193	11.793	1.00	19.04
6825	N	GLY	B	143	61.600	23.205	9.858	1.00	18.45

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6826	CA	GLY	B	143	61.324	24.453	10.610	1.00	19.04
6827	C	GLY	B	143	60.144	24.462	11.670	1.00	18.33
6828	O	GLY	B	143	59.180	23.635	11.653	1.00	17.69
6829	N	ASN	B	144	60.291	25.354	12.655	1.00	17.46
6830	CA	ASN	B	144	59.325	25.630	13.679	1.00	15.11
6831	CB	ASN	B	144	58.621	26.962	13.281	1.00	13.76
6832	CG	ASN	B	144	58.798	27.999	14.347	1.00	15.75
6833	OD1	ASN	B	144	58.163	27.926	15.465	1.00	10.85
6834	ND2	ASN	B	144	59.802	28.899	14.121	1.00	16.75
6835	C	ASN	B	144	58.317	24.525	13.988	1.00	15.15
6836	O	ASN	B	144	57.145	24.725	13.887	1.00	15.39
6837	N	GLU	B	145	58.748	23.320	14.296	1.00	15.03
6838	CA	GLU	B	145	57.809	22.193	14.534	1.00	15.15
6839	CB	GLU	B	145	58.444	21.010	15.244	1.00	14.44
6840	CG	GLU	B	145	59.013	19.940	14.298	1.00	14.40
6841	CD	GLU	B	145	60.493	20.240	13.932	1.00	21.80
6842	OE1	GLU	B	145	60.847	21.508	14.004	1.00	12.81
6843	OE2	GLU	B	145	61.300	19.212	13.631	1.00	26.46
6844	C	GLU	B	145	56.637	22.634	15.370	1.00	16.43
6845	O	GLU	B	145	56.769	23.559	16.171	1.00	18.24
6846	N	LEU	B	146	55.504	21.935	15.201	1.00	16.06
6847	CA	LEU	B	146	54.169	22.381	15.699	1.00	15.15
6848	CB	LEU	B	146	53.049	21.653	14.983	1.00	14.27
6849	CG	LEU	B	146	52.432	22.392	13.828	1.00	19.03
6850	CD1	LEU	B	146	51.551	21.464	13.016	1.00	19.59
6851	CD2	LEU	B	146	51.600	23.540	14.395	1.00	20.32
6852	C	LEU	B	146	54.129	21.939	17.108	1.00	13.55
6853	O	LEU	B	146	54.783	20.943	17.397	1.00	13.92
6854	N	PRO	B	147	53.409	22.653	17.974	1.00	12.92
6855	CA	PRO	B	147	53.357	22.270	19.365	1.00	12.81
6856	CB	PRO	B	147	52.726	23.506	20.024	1.00	13.16
6857	CG	PRO	B	147	51.614	23.911	19.025	1.00	11.35
6858	CD	PRO	B	147	52.561	23.855	17.746	1.00	12.99
6859	C	PRO	B	147	52.502	21.013	19.523	1.00	13.72
6860	O	PRO	B	147	51.953	20.506	18.595	1.00	13.27
6861	N	ARG	B	148	52.447	20.519	20.733	1.00	15.54
6862	CA	ARG	B	148	51.919	19.201	21.048	1.00	16.85
6863	CB	ARG	B	148	53.042	18.268	21.430	1.00	16.70
6864	CG	ARG	B	148	53.133	17.078	20.503	1.00	18.43
6865	CD	ARG	B	148	54.301	16.136	20.888	1.00	23.99
6866	NE	ARG	B	148	55.061	15.519	19.776	1.00	27.49
6867	CZ	ARG	B	148	55.766	16.170	18.841	1.00	29.47
6868	NH1	ARG	B	148	56.433	15.462	17.960	1.00	28.63
6869	NH2	ARG	B	148	55.830	17.505	18.765	1.00	28.67
6870	C	ARG	B	148	50.978	19.305	22.240	1.00	17.39
6871	O	ARG	B	148	51.247	20.133	23.114	1.00	19.87
6872	N	PRO	B	149	50.172	18.259	22.491	1.00	15.23
6873	CA	PRO	B	149	48.797	18.151	22.257	1.00	13.71
6874	CB	PRO	B	149	48.282	17.883	23.695	1.00	14.41
6875	CG	PRO	B	149	49.330	17.999	24.482	1.00	10.79
6876	CD	PRO	B	149	50.463	17.415	23.635	1.00	16.02

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6877	C	PRO	B	149	48.182	19.393	21.466	1.00	13.60
6878	O	PRO	B	149	48.155	20.520	21.899	1.00	13.77
6879	N	ILE	B	150	47.839	19.130	20.209	1.00	11.91
6880	CA	ILE	B	150	46.968	19.970	19.485	1.00	10.96
6881	CB	ILE	B	150	47.502	20.106	18.028	1.00	11.23
6882	CG1	ILE	B	150	48.836	20.775	18.037	1.00	10.02
6883	CD1	ILE	B	150	49.093	21.603	16.847	1.00	11.96
6884	CG2	ILE	B	150	46.477	20.898	17.145	1.00	7.27
6885	C	ILE	B	150	45.510	19.403	19.512	1.00	11.94
6886	O	ILE	B	150	45.267	18.208	19.268	1.00	11.12
6887	N	GLN	B	151	44.607	20.356	19.680	1.00	11.41
6888	CA	GLN	B	151	43.227	20.185	19.947	1.00	12.94
6889	CB	GLN	B	151	42.763	21.420	20.855	1.00	12.64
6890	CG	GLN	B	151	43.168	21.222	22.302	1.00	11.96
6891	CD	GLN	B	151	43.119	22.468	23.101	1.00	14.76
6892	OE1	GLN	B	151	42.378	22.553	24.049	1.00	14.39
6893	NE2	GLN	B	151	43.995	23.403	22.803	1.00	11.76
6894	C	GLN	B	151	42.398	20.107	18.665	1.00	13.48
6895	O	GLN	B	151	41.408	19.381	18.561	1.00	12.12
6896	N	TYR	B	152	42.828	20.932	17.700	1.00	13.93
6897	CA	TYR	B	152	42.209	21.019	16.377	1.00	12.63
6898	CB	TYR	B	152	41.008	21.997	16.368	1.00	12.31
6899	CG	TYR	B	152	40.282	21.831	15.054	1.00	12.02
6900	CD1	TYR	B	152	39.990	22.966	14.236	1.00	6.33
6901	CE1	TYR	B	152	39.261	22.775	12.948	1.00	6.95
6902	CZ	TYR	B	152	38.898	21.429	12.537	1.00	7.03
6903	OH	TYR	B	152	38.305	21.273	11.306	1.00	11.75
6904	CE2	TYR	B	152	39.250	20.278	13.337	1.00	6.28
6905	CD2	TYR	B	152	39.860	20.488	14.598	1.00	6.45
6906	C	TYR	B	152	43.241	21.556	15.397	1.00	13.50
6907	O	TYR	B	152	44.050	22.339	15.736	1.00	12.81
6908	N	LEU	B	153	43.167	21.170	14.142	1.00	14.69
6909	CA	LEU	B	153	44.202	21.559	13.147	1.00	13.97
6910	CB	LEU	B	153	45.393	20.630	13.167	1.00	12.86
6911	CG	LEU	B	153	46.439	20.911	12.094	1.00	11.99
6912	CD1	LEU	B	153	47.945	20.663	12.553	1.00	4.74
6913	CD2	LEU	B	153	46.240	20.122	10.976	1.00	10.59
6914	C	LEU	B	153	43.504	21.260	11.893	1.00	15.80
6915	O	LEU	B	153	42.973	20.172	11.731	1.00	18.12
6916	N	CYS	B	154	43.472	22.201	10.990	1.00	15.65
6917	CA	CYS	B	154	42.949	21.902	9.701	1.00	15.65
6918	CB	CYS	B	154	41.456	22.157	9.690	1.00	13.00
6919	SG	CYS	B	154	41.169	23.895	9.872	1.00	21.97
6920	C	CYS	B	154	43.649	22.767	8.705	1.00	14.19
6921	O	CYS	B	154	44.128	23.845	9.028	1.00	15.44
6922	N	TRP	B	155	43.538	22.332	7.461	1.00	12.95
6923	CA	TRP	B	155	44.093	23.031	6.330	1.00	13.19
6924	CB	TRP	B	155	44.202	22.043	5.163	1.00	10.38
6925	CG	TRP	B	155	45.234	21.156	5.276	1.00	9.03
6926	CD1	TRP	B	155	45.145	19.786	5.280	1.00	7.26
6927	NE1	TRP	B	155	46.411	19.245	5.271	1.00	3.63

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6928	CE2	TRP	B	155	47.344	20.236	5.319	1.00	2.23
6929	CD2	TRP	B	155	46.651	21.462	5.317	1.00	4.74
6930	CE3	TRP	B	155	47.386	22.640	5.276	1.00	5.21
6931	CZ3	TRP	B	155	48.824	22.575	5.307	1.00	3.77
6932	CH2	TRP	B	155	49.420	21.351	5.399	1.00	2.00
6933	CZ2	TRP	B	155	48.702	20.157	5.391	1.00	2.00
6934	C	TRP	B	155	43.147	24.160	5.997	1.00	12.86
6935	O	TRP	B	155	41.987	24.021	6.229	1.00	14.66
6936	N	SER	B	156	43.644	25.266	5.458	1.00	13.60
6937	CA	SER	B	156	42.697	26.225	4.819	1.00	16.28
6938	CB	SER	B	156	43.438	27.407	4.253	1.00	14.91
6939	OG	SER	B	156	44.256	26.973	3.243	1.00	17.13
6940	C	SER	B	156	41.985	25.434	3.709	1.00	17.35
6941	O	SER	B	156	42.425	24.271	3.418	1.00	16.67
6942	N	PRO	B	157	40.942	25.993	3.091	1.00	17.86
6943	CA	PRO	B	157	40.182	25.218	2.101	1.00	18.91
6944	CB	PRO	B	157	38.807	25.875	2.106	1.00	19.53
6945	CG	PRO	B	157	38.957	27.165	2.920	1.00	20.73
6946	CD	PRO	B	157	40.443	27.376	3.156	1.00	16.86
6947	C	PRO	B	157	40.831	25.227	0.660	1.00	18.65
6948	O	PRO	B	157	40.479	24.394	-0.215	1.00	20.72
6949	N	VAL	B	158	41.705	26.192	0.424	1.00	14.85
6950	CA	VAL	B	158	42.519	26.289	-0.777	1.00	14.69
6951	CB	VAL	B	158	41.971	27.306	-1.828	1.00	13.91
6952	CG1	VAL	B	158	40.532	27.032	-2.117	1.00	12.98
6953	CG2	VAL	B	158	42.145	28.814	-1.373	1.00	16.26
6954	C	VAL	B	158	43.925	26.672	-0.291	1.00	12.81
6955	O	VAL	B	158	44.152	26.861	0.848	1.00	12.47
6956	N	GLY	B	159	44.881	26.788	-1.156	1.00	13.80
6957	CA	GLY	B	159	46.303	26.681	-0.738	1.00	12.87
6958	C	GLY	B	159	46.737	25.656	0.333	1.00	13.51
6959	O	GLY	B	159	46.287	24.502	0.377	1.00	12.75
6960	N	SER	B	160	47.627	26.123	1.219	1.00	14.93
6961	CA	SER	B	160	48.273	25.271	2.206	1.00	15.74
6962	CB	SER	B	160	49.553	24.678	1.607	1.00	15.24
6963	OG	SER	B	160	50.552	25.646	1.262	1.00	20.45
6964	C	SER	B	160	48.536	26.052	3.500	1.00	14.35
6965	O	SER	B	160	49.634	26.091	4.062	1.00	13.34
6966	N	LYS	B	161	47.520	26.739	3.939	1.00	13.79
6967	CA	LYS	B	161	47.640	27.365	5.236	1.00	15.76
6968	CB	LYS	B	161	47.156	28.803	5.391	1.00	14.71
6969	CG	LYS	B	161	46.773	29.564	4.162	1.00	20.53
6970	CD	LYS	B	161	47.794	30.642	3.725	1.00	25.61
6971	CE	LYS	B	161	47.114	31.794	2.901	1.00	29.94
6972	NZ	LYS	B	161	46.340	32.852	3.730	1.00	30.81
6973	C	LYS	B	161	47.067	26.502	6.284	1.00	15.37
6974	O	LYS	B	161	46.501	25.422	6.070	1.00	17.29
6975	N	LEU	B	162	47.236	26.961	7.492	1.00	15.91
6976	CA	LEU	B	162	47.018	26.064	8.625	1.00	13.75
6977	CB	LEU	B	162	48.392	25.599	9.012	1.00	11.90
6978	CG	LEU	B	162	48.576	24.136	9.292	1.00	12.92

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
6979	CD1	LEU	B	162	47.828	23.213	8.379	1.00	8.78
6980	CD2	LEU	B	162	50.120	23.858	9.327	1.00	4.25
6981	C	LEU	B	162	46.536	26.920	9.714	1.00	13.58
6982	O	LEU	B	162	47.196	27.971	9.983	1.00	13.25
6983	N	ALA	B	163	45.485	26.464	10.358	1.00	9.04
6984	CA	ALA	B	163	45.112	26.946	11.630	1.00	9.03
6985	CB	ALA	B	163	43.838	27.755	11.517	1.00	9.86
6986	C	ALA	B	163	44.893	25.773	12.621	1.00	10.10
6987	O	ALA	B	163	44.366	24.780	12.290	1.00	9.70
6988	N	TYR	B	164	45.257	25.976	13.872	1.00	11.91
6989	CA	TYR	B	164	45.174	24.989	14.895	1.00	11.36
6990	CB	TYR	B	164	46.497	24.190	15.025	1.00	11.42
6991	CG	TYR	B	164	47.792	24.970	15.320	1.00	13.58
6992	CD1	TYR	B	164	48.223	25.149	16.617	1.00	14.23
6993	CE1	TYR	B	164	49.469	25.854	16.952	1.00	11.49
6994	CZ	TYR	B	164	50.323	26.312	15.986	1.00	12.68
6995	OH	TYR	B	164	51.532	26.897	16.472	1.00	14.69
6996	CE2	TYR	B	164	49.993	26.050	14.653	1.00	10.54
6997	CD2	TYR	B	164	48.688	25.350	14.330	1.00	16.41
6998	C	TYR	B	164	44.864	25.648	16.187	1.00	11.52
6999	O	TYR	B	164	44.941	26.862	16.365	1.00	11.23
7000	N	VAL	B	165	44.529	24.808	17.132	1.00	12.41
7001	CA	VAL	B	165	44.248	25.213	18.486	1.00	9.82
7002	CB	VAL	B	165	42.842	24.953	18.709	1.00	10.25
7003	CG1	VAL	B	165	42.507	25.260	20.054	1.00	12.65
7004	CG2	VAL	B	165	41.998	25.731	17.746	1.00	4.49
7005	C	VAL	B	165	45.122	24.388	19.442	1.00	11.12
7006	O	VAL	B	165	45.097	23.147	19.441	1.00	12.21
7007	N	TYR	B	166	45.956	25.113	20.183	1.00	11.12
7008	CA	TYR	B	166	46.905	24.619	21.197	1.00	10.52
7009	CB	TYR	B	166	48.329	25.104	20.880	1.00	8.93
7010	CG	TYR	B	166	49.373	24.648	21.876	1.00	8.83
7011	CD1	TYR	B	166	50.196	25.530	22.545	1.00	11.74
7012	CE1	TYR	B	166	51.214	25.062	23.449	1.00	10.43
7013	CZ	TYR	B	166	51.313	23.740	23.668	1.00	7.14
7014	OH	TYR	B	166	52.173	23.200	24.558	1.00	6.25
7015	CE2	TYR	B	166	50.449	22.904	23.018	1.00	2.00
7016	CD2	TYR	B	166	49.548	23.348	22.121	1.00	5.88
7017	C	TYR	B	166	46.497	25.394	22.475	1.00	11.06
7018	O	TYR	B	166	46.233	26.593	22.466	1.00	9.91
7019	N	GLN	B	167	46.488	24.671	23.576	1.00	12.72
7020	CA	GLN	B	167	46.093	25.223	24.882	1.00	12.98
7021	CB	GLN	B	167	47.271	25.837	25.586	1.00	9.94
7022	CG	GLN	B	167	48.192	24.795	26.024	1.00	12.12
7023	CD	GLN	B	167	49.509	25.343	26.443	1.00	14.49
7024	OE1	GLN	B	167	50.179	24.679	27.180	1.00	13.65
7025	NE2	GLN	B	167	49.885	26.593	25.967	1.00	16.43
7026	C	GLN	B	167	44.969	26.201	24.804	1.00	11.47
7027	O	GLN	B	167	45.079	27.294	25.341	1.00	13.23
7028	N	ASN	B	168	43.914	25.812	24.133	1.00	10.08
7029	CA	ASN	B	168	42.721	26.675	23.989	1.00	9.66

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7030	CB	ASN	B	168	42.176	26.927	25.393	1.00	9.60
7031	CG	ASN	B	168	41.309	25.792	25.911	1.00	6.66
7032	OD1	ASN	B	168	40.463	25.993	26.725	1.00	11.37
7033	ND2	ASN	B	168	41.541	24.628	25.462	1.00	12.81
7034	C	ASN	B	168	42.903	28.057	23.234	1.00	10.18
7035	O	ASN	B	168	42.033	29.053	23.310	1.00	8.03
7036	N	ASN	B	169	44.009	28.158	22.517	1.00	8.75
7037	CA	ASN	B	169	44.166	29.287	21.645	1.00	10.93
7038	CB	ASN	B	169	45.346	30.104	22.097	1.00	11.60
7039	CG	ASN	B	169	45.073	30.999	23.315	1.00	12.10
7040	OD1	ASN	B	169	44.097	31.756	23.358	1.00	2.83
7041	ND2	ASN	B	169	46.004	30.948	24.280	1.00	9.76
7042	C	ASN	B	169	44.358	28.845	20.171	1.00	11.49
7043	O	ASN	B	169	44.893	27.761	19.800	1.00	11.47
7044	N	ILE	B	170	44.004	29.758	19.320	1.00	11.87
7045	CA	ILE	B	170	44.120	29.525	17.860	1.00	10.56
7046	CB	ILE	B	170	42.924	30.152	17.069	1.00	12.19
7047	CG1	ILE	B	170	41.566	29.639	17.562	1.00	6.70
7048	CD1	ILE	B	170	40.393	30.757	17.347	1.00	12.14
7049	CG2	ILE	B	170	43.009	29.770	15.596	1.00	12.19
7050	C	ILE	B	170	45.403	30.118	17.390	1.00	9.96
7051	O	ILE	B	170	45.849	31.128	17.850	1.00	8.23
7052	N	TYR	B	171	45.970	29.424	16.418	1.00	10.41
7053	CA	TYR	B	171	47.186	29.863	15.733	1.00	9.51
7054	CB	TYR	B	171	48.408	29.124	16.232	1.00	7.78
7055	CG	TYR	B	171	48.785	29.373	17.680	1.00	2.55
7056	CD1	TYR	B	171	49.912	30.093	18.032	1.00	4.74
7057	CE1	TYR	B	171	50.270	30.276	19.385	1.00	7.22
7058	CZ	TYR	B	171	49.471	29.681	20.320	1.00	7.81
7059	OH	TYR	B	171	49.692	29.827	21.631	1.00	10.78
7060	CE2	TYR	B	171	48.373	28.938	19.965	1.00	4.45
7061	CD2	TYR	B	171	48.060	28.792	18.680	1.00	4.90
7062	C	TYR	B	171	47.019	29.569	14.260	1.00	11.40
7063	O	TYR	B	171	46.227	28.637	13.791	1.00	12.52
7064	N	LEU	B	172	47.756	30.402	13.570	1.00	10.04
7065	CA	LEU	B	172	47.892	30.494	12.135	1.00	11.37
7066	CB	LEU	B	172	47.434	31.933	11.750	1.00	12.59
7067	CG	LEU	B	172	46.531	32.312	10.620	1.00	16.54
7068	CD1	LEU	B	172	46.572	33.749	10.492	1.00	16.69
7069	CD2	LEU	B	172	47.039	31.733	9.419	1.00	21.18
7070	C	LEU	B	172	49.327	30.346	11.634	1.00	8.78
7071	O	LEU	B	172	50.301	30.784	12.223	1.00	6.38
7072	N	LYS	B	173	49.391	29.786	10.470	1.00	9.86
7073	CA	LYS	B	173	50.609	29.400	9.833	1.00	12.89
7074	CB	LYS	B	173	50.849	27.897	10.094	1.00	10.92
7075	CG	LYS	B	173	52.326	27.546	10.460	1.00	13.49
7076	CD	LYS	B	173	52.403	26.300	11.376	1.00	11.10
7077	CE	LYS	B	173	53.714	25.631	11.401	1.00	13.39
7078	NZ	LYS	B	173	54.285	26.075	12.620	1.00	12.43
7079	C	LYS	B	173	50.343	29.650	8.336	1.00	13.25
7080	O	LYS	B	173	49.603	28.861	7.730	1.00	12.92

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7081	N	GLN	B	174	50.941	30.703	7.733	1.00	13.50
7082	CA	GLN	B	174	50.871	30.848	6.272	1.00	13.84
7083	CB	GLN	B	174	51.698	32.055	5.816	1.00	14.37
7084	CG	GLN	B	174	50.874	33.067	4.929	1.00	21.12
7085	CD	GLN	B	174	49.617	33.660	5.653	1.00	19.68
7086	OE1	GLN	B	174	49.686	34.091	6.800	1.00	22.08
7087	NE2	GLN	B	174	48.493	33.671	4.960	1.00	27.75
7088	C	GLN	B	174	51.317	29.607	5.480	1.00	12.97
7089	O	GLN	B	174	50.899	29.435	4.347	1.00	13.19
7090	N	ARG	B	175	52.147	28.737	6.081	1.00	13.28
7091	CA	ARG	B	175	52.936	27.763	5.344	1.00	15.46
7092	CB	ARG	B	175	53.919	28.497	4.374	1.00	15.57
7093	CG	ARG	B	175	55.133	27.766	3.966	1.00	19.81
7094	CD	ARG	B	175	55.961	28.346	2.727	1.00	30.00
7095	NE	ARG	B	175	55.119	28.262	1.512	1.00	38.74
7096	CZ	ARG	B	175	55.296	27.485	0.396	1.00	41.10
7097	NH1	ARG	B	175	56.369	26.679	0.198	1.00	37.27
7098	NH2	ARG	B	175	54.352	27.561	-0.553	1.00	41.17
7099	C	ARG	B	175	53.692	26.881	6.365	1.00	16.59
7100	O	ARG	B	175	54.202	27.306	7.368	1.00	17.70
7101	N	PRO	B	176	53.757	25.613	6.141	1.00	17.61
7102	CA	PRO	B	176	54.092	24.730	7.234	1.00	18.89
7103	CB	PRO	B	176	54.055	23.395	6.550	1.00	20.56
7104	CG	PRO	B	176	53.031	23.636	5.417	1.00	17.68
7105	CD	PRO	B	176	53.486	24.885	4.901	1.00	18.21
7106	C	PRO	B	176	55.455	24.982	7.878	1.00	19.79
7107	O	PRO	B	176	55.648	25.193	9.076	1.00	20.88
7108	N	GLY	B	177	56.485	25.020	7.143	1.00	18.26
7109	CA	GLY	B	177	57.648	25.364	7.923	1.00	18.77
7110	C	GLY	B	177	57.627	26.641	8.781	1.00	18.53
7111	O	GLY	B	177	58.604	26.866	9.540	1.00	18.13
7112	N	ASP	B	178	56.617	27.522	8.599	1.00	17.17
7113	CA	ASP	B	178	56.648	28.852	9.222	1.00	17.59
7114	CB	ASP	B	178	55.718	29.834	8.560	1.00	17.43
7115	CG	ASP	B	178	56.211	30.331	7.176	1.00	22.63
7116	OD1	ASP	B	178	57.403	30.215	6.801	1.00	24.36
7117	OD2	ASP	B	178	55.450	30.862	6.359	1.00	27.17
7118	C	ASP	B	178	56.390	28.910	10.733	1.00	18.05
7119	O	ASP	B	178	55.820	28.016	11.340	1.00	20.49
7120	N	PRO	B	179	56.892	29.954	11.360	1.00	17.67
7121	CA	PRO	B	179	56.501	30.242	12.726	1.00	16.70
7122	CB	PRO	B	179	57.409	31.409	13.089	1.00	16.41
7123	CG	PRO	B	179	57.699	31.987	11.869	1.00	18.14
7124	CD	PRO	B	179	57.954	30.858	10.885	1.00	17.15
7125	C	PRO	B	179	55.057	30.657	12.823	1.00	15.25
7126	O	PRO	B	179	54.619	31.435	11.954	1.00	14.10
7127	N	PRO	B	180	54.382	30.330	13.930	1.00	14.99
7128	CA	PRO	B	180	52.990	30.606	14.062	1.00	15.42
7129	CB	PRO	B	180	52.509	29.527	15.023	1.00	15.34
7130	CG	PRO	B	180	53.706	29.047	15.809	1.00	14.24
7131	CD	PRO	B	180	54.918	29.818	15.201	1.00	16.23

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7132	C	PRO	B	180	52.667	32.043	14.582	1.00	15.00
7133	O	PRO	B	180	53.270	32.555	15.472	1.00	16.77
7134	N	PHE	B	181	51.717	32.675	13.935	1.00	13.50
7135	CA	PHE	B	181	51.087	33.896	14.390	1.00	13.48
7136	CB	PHE	B	181	50.417	34.599	13.212	1.00	13.84
7137	CG	PHE	B	181	49.942	35.852	13.554	1.00	11.72
7138	CD1	PHE	B	181	48.624	36.014	13.930	1.00	13.12
7139	CE1	PHE	B	181	48.138	37.303	14.305	1.00	14.81
7140	CZ	PHE	B	181	49.025	38.361	14.351	1.00	10.83
7141	CE2	PHE	B	181	50.362	38.168	13.998	1.00	16.64
7142	CD2	PHE	B	181	50.813	36.919	13.621	1.00	17.12
7143	C	PHE	B	181	50.007	33.515	15.381	1.00	14.13
7144	O	PHE	B	181	49.113	32.768	15.031	1.00	13.49
7145	N	GLN	B	182	50.089	34.056	16.592	1.00	12.61
7146	CA	GLN	B	182	49.107	33.743	17.564	1.00	10.41
7147	CB	GLN	B	182	49.633	33.900	18.996	1.00	9.52
7148	CG	GLN	B	182	48.680	33.159	19.974	1.00	7.59
7149	CD	GLN	B	182	49.139	33.192	21.437	1.00	13.14
7150	OE1	GLN	B	182	50.148	33.820	21.787	1.00	14.25
7151	NE2	GLN	B	182	48.382	32.531	22.274	1.00	7.46
7152	C	GLN	B	182	47.882	34.617	17.360	1.00	8.63
7153	O	GLN	B	182	48.053	35.768	17.325	1.00	6.86
7154	N	ILE	B	183	46.649	34.038	17.361	1.00	10.75
7155	CA	ILE	B	183	45.411	34.792	17.086	1.00	9.82
7156	CB	ILE	B	183	44.573	34.122	16.024	1.00	9.89
7157	CG1	ILE	B	183	45.148	34.521	14.681	1.00	11.43
7158	CD1	ILE	B	183	44.619	33.816	13.597	1.00	11.33
7159	CG2	ILE	B	183	43.183	34.699	15.928	1.00	4.91
7160	C	ILE	B	183	44.647	35.110	18.300	1.00	11.34
7161	O	ILE	B	183	44.134	36.229	18.435	1.00	13.21
7162	N	THR	B	184	44.523	34.160	19.211	1.00	11.16
7163	CA	THR	B	184	43.826	34.425	20.514	1.00	10.37
7164	CB	THR	B	184	42.662	33.538	20.712	1.00	8.81
7165	OG1	THR	B	184	43.066	32.152	20.840	1.00	10.31
7166	CG2	THR	B	184	41.825	33.558	19.543	1.00	9.63
7167	C	THR	B	184	44.815	34.212	21.664	1.00	12.27
7168	O	THR	B	184	45.758	33.348	21.584	1.00	13.70
7169	N	PHE	B	185	44.642	34.983	22.738	1.00	14.02
7170	CA	PHE	B	185	45.570	34.865	23.851	1.00	16.31
7171	CB	PHE	B	185	46.365	36.152	24.012	1.00	18.03
7172	CG	PHE	B	185	47.012	36.635	22.762	1.00	21.36
7173	CD1	PHE	B	185	46.302	37.448	21.877	1.00	21.58
7174	CE1	PHE	B	185	46.874	37.931	20.747	1.00	20.77
7175	CZ	PHE	B	185	48.159	37.631	20.465	1.00	19.43
7176	CE2	PHE	B	185	48.920	36.793	21.326	1.00	24.81
7177	CD2	PHE	B	185	48.348	36.329	22.500	1.00	25.25
7178	C	PHE	B	185	44.948	34.589	25.192	1.00	17.33
7179	O	PHE	B	185	45.683	34.421	26.117	1.00	17.90
7180	N	ASN	B	186	43.619	34.543	25.306	1.00	16.52
7181	CA	ASN	B	186	42.937	34.370	26.576	1.00	16.11
7182	CB	ASN	B	186	41.771	35.371	26.679	1.00	13.56

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7183	CG	ASN	B	186	40.748	35.205	25.504	1.00	18.96
7184	OD1	ASN	B	186	40.832	34.221	24.762	1.00	20.37
7185	ND2	ASN	B	186	39.790	36.120	25.365	1.00	15.70
7186	C	ASN	B	186	42.418	32.952	26.759	1.00	16.99
7187	O	ASN	B	186	41.470	32.704	27.500	1.00	20.30
7188	N	GLY	B	187	43.009	31.974	26.131	1.00	15.66
7189	CA	GLY	B	187	42.502	30.645	26.378	1.00	15.47
7190	C	GLY	B	187	43.049	30.219	27.717	1.00	15.11
7191	O	GLY	B	187	44.127	30.533	27.985	1.00	14.14
7192	N	ARG	B	188	42.277	29.491	28.499	1.00	15.93
7193	CA	ARG	B	188	42.631	28.940	29.813	1.00	17.74
7194	CB	ARG	B	188	42.127	29.998	30.809	1.00	18.03
7195	CG	ARG	B	188	42.767	30.193	32.239	1.00	22.23
7196	CD	ARG	B	188	42.604	31.705	32.792	1.00	31.12
7197	NE	ARG	B	188	41.298	32.398	32.452	1.00	35.65
7198	CZ	ARG	B	188	40.194	32.470	33.294	1.00	39.26
7199	NH1	ARG	B	188	40.288	31.908	34.520	1.00	44.06
7200	NH2	ARG	B	188	39.007	33.073	32.948	1.00	32.47
7201	C	ARG	B	188	41.896	27.524	29.937	1.00	18.63
7202	O	ARG	B	188	40.692	27.452	29.593	1.00	17.42
7203	N	GLU	B	189	42.539	26.412	30.354	1.00	20.38
7204	CA	GLU	B	189	41.789	25.101	30.497	1.00	22.25
7205	CB	GLU	B	189	42.523	24.027	31.350	1.00	23.72
7206	CG	GLU	B	189	42.797	22.630	30.668	1.00	28.61
7207	CD	GLU	B	189	44.093	21.800	31.163	1.00	37.88
7208	OE1	GLU	B	189	44.628	20.922	30.368	1.00	38.40
7209	OE2	GLU	B	189	44.619	21.991	32.330	1.00	36.36
7210	C	GLU	B	189	40.461	25.401	31.172	1.00	23.25
7211	O	GLU	B	189	40.397	26.238	32.069	1.00	23.14
7212	N	ASN	B	190	39.410	24.695	30.765	1.00	23.54
7213	CA	ASN	B	190	38.033	24.926	31.237	1.00	24.51
7214	CB	ASN	B	190	37.544	23.969	32.375	1.00	25.54
7215	CG	ASN	B	190	38.435	22.780	32.625	1.00	28.77
7216	OD1	ASN	B	190	39.184	22.342	31.754	1.00	33.94
7217	ND2	ASN	B	190	38.328	22.216	33.853	1.00	30.44
7218	C	ASN	B	190	37.731	26.368	31.695	1.00	24.73
7219	O	ASN	B	190	37.120	26.589	32.765	1.00	27.99
7220	N	LYS	B	191	38.146	27.363	30.985	1.00	21.53
7221	CA	LYS	B	191	37.672	28.653	31.376	1.00	20.29
7222	CB	LYS	B	191	38.682	29.485	32.235	1.00	21.64
7223	CG	LYS	B	191	39.072	29.011	33.717	1.00	23.34
7224	CD	LYS	B	191	38.285	29.691	34.937	1.00	26.16
7225	CE	LYS	B	191	39.061	29.833	36.324	1.00	28.40
7226	NZ	LYS	B	191	38.422	30.985	37.147	1.00	28.10
7227	C	LYS	B	191	37.302	29.366	30.059	1.00	20.17
7228	O	LYS	B	191	36.154	29.737	29.866	1.00	19.38
7229	N	ILE	B	192	38.269	29.562	29.164	1.00	17.98
7230	CA	ILE	B	192	37.987	30.167	27.885	1.00	15.91
7231	CB	ILE	B	192	38.569	31.571	27.899	1.00	15.54
7232	CG1	ILE	B	192	37.632	32.458	28.695	1.00	12.93
7233	CD1	ILE	B	192	38.240	32.994	29.761	1.00	11.94

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7234	CG2	ILE	B	192	38.694	32.130	26.591	1.00	14.47
7235	C	ILE	B	192	38.550	29.308	26.792	1.00	14.38
7236	O	ILE	B	192	39.749	28.825	26.881	1.00	12.71
7237	N	PHE	B	193	37.673	29.145	25.770	1.00	11.74
7238	CA	PHE	B	193	37.903	28.251	24.637	1.00	11.12
7239	CB	PHE	B	193	36.894	27.087	24.473	1.00	11.41
7240	CG	PHE	B	193	36.723	26.226	25.661	1.00	12.24
7241	CD1	PHE	B	193	36.075	26.694	26.783	1.00	7.37
7242	CE1	PHE	B	193	35.924	25.888	27.864	1.00	5.68
7243	CZ	PHE	B	193	36.399	24.517	27.836	1.00	5.58
7244	CE2	PHE	B	193	37.009	24.041	26.759	1.00	8.69
7245	CD2	PHE	B	193	37.152	24.875	25.638	1.00	15.54
7246	C	PHE	B	193	37.814	29.085	23.389	1.00	11.01
7247	O	PHE	B	193	36.699	29.543	23.045	1.00	12.14
7248	N	ASN	B	194	38.941	29.246	22.686	1.00	9.52
7249	CA	ASN	B	194	38.962	29.763	21.287	1.00	9.42
7250	CB	ASN	B	194	40.138	30.689	21.112	1.00	6.60
7251	CG	ASN	B	194	40.025	31.839	22.016	1.00	10.29
7252	OD1	ASN	B	194	39.135	32.736	21.777	1.00	7.79
7253	ND2	ASN	B	194	40.782	31.785	23.174	1.00	6.26
7254	C	ASN	B	194	38.993	28.759	20.175	1.00	9.64
7255	O	ASN	B	194	39.821	27.811	20.179	1.00	9.79
7256	N	GLY	B	195	38.047	28.842	19.268	1.00	8.20
7257	CA	GLY	B	195	38.042	27.866	18.176	1.00	9.32
7258	C	GLY	B	195	37.863	26.364	18.472	1.00	11.41
7259	O	GLY	B	195	38.114	25.568	17.578	1.00	10.28
7260	N	ILE	B	196	37.548	25.958	19.718	1.00	10.93
7261	CA	ILE	B	196	36.922	24.678	19.975	1.00	11.70
7262	CB	ILE	B	196	37.897	23.677	20.623	1.00	12.63
7263	CG1	ILE	B	196	38.792	24.417	21.696	1.00	10.46
7264	CD1	ILE	B	196	39.533	23.635	22.733	1.00	2.00
7265	CG2	ILE	B	196	38.779	23.085	19.564	1.00	4.80
7266	C	ILE	B	196	35.734	25.018	20.893	1.00	13.65
7267	O	ILE	B	196	35.768	26.030	21.612	1.00	14.76
7268	N	PRO	B	197	34.764	24.155	20.950	1.00	12.81
7269	CA	PRO	B	197	33.614	24.360	21.803	1.00	14.25
7270	CB	PRO	B	197	32.591	23.342	21.225	1.00	14.47
7271	CG	PRO	B	197	33.468	22.149	20.699	1.00	14.69
7272	CD	PRO	B	197	34.689	22.867	20.249	1.00	12.31
7273	C	PRO	B	197	33.990	23.917	23.181	1.00	13.04
7274	O	PRO	B	197	34.957	23.295	23.308	1.00	16.45
7275	N	ASP	B	198	33.213	24.245	24.197	1.00	12.80
7276	CA	ASP	B	198	33.391	23.756	25.564	1.00	11.15
7277	CB	ASP	B	198	32.909	24.769	26.540	1.00	11.71
7278	CG	ASP	B	198	31.419	25.085	26.353	1.00	14.01
7279	OD1	ASP	B	198	30.873	25.895	27.149	1.00	20.69
7280	OD2	ASP	B	198	30.741	24.556	25.437	1.00	16.07
7281	C	ASP	B	198	32.480	22.590	25.638	1.00	11.52
7282	O	ASP	B	198	32.082	22.060	24.586	1.00	13.72
7283	N	TRP	B	199	32.113	22.156	26.814	1.00	9.67
7284	CA	TRP	B	199	31.597	20.818	26.885	1.00	11.29

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7285	CB	TRP	B	199	31.358	20.303	28.322	1.00	11.25
7286	CG	TRP	B	199	30.917	18.814	28.276	1.00	9.38
7287	CD1	TRP	B	199	31.737	17.754	28.300	1.00	12.12
7288	NE1	TRP	B	199	31.020	16.596	28.209	1.00	10.66
7289	CE2	TRP	B	199	29.709	16.916	28.065	1.00	10.14
7290	CD2	TRP	B	199	29.615	18.310	28.124	1.00	9.60
7291	CE3	TRP	B	199	28.344	18.894	28.045	1.00	6.19
7292	CZ3	TRP	B	199	27.250	18.092	27.928	1.00	2.42
7293	CH2	TRP	B	199	27.350	16.736	27.903	1.00	8.79
7294	CZ2	TRP	B	199	28.574	16.087	28.006	1.00	7.10
7295	C	TRP	B	199	30.278	20.750	26.185	1.00	11.23
7296	O	TRP	B	199	30.072	19.909	25.316	1.00	11.57
7297	N	VAL	B	200	29.415	21.680	26.553	1.00	11.15
7298	CA	VAL	B	200	27.987	21.572	26.132	1.00	12.26
7299	CB	VAL	B	200	27.070	22.375	27.085	1.00	11.30
7300	CG1	VAL	B	200	27.528	23.956	27.197	1.00	10.98
7301	CG2	VAL	B	200	25.694	22.215	26.719	1.00	14.13
7302	C	VAL	B	200	27.757	21.952	24.699	1.00	12.21
7303	O	VAL	B	200	26.907	21.381	23.985	1.00	12.39
7304	N	TYR	B	201	28.541	22.892	24.227	1.00	11.85
7305	CA	TYR	B	201	28.437	23.192	22.779	1.00	11.90
7306	CB	TYR	B	201	29.105	24.457	22.432	1.00	11.04
7307	CG	TYR	B	201	28.276	25.735	22.546	1.00	14.36
7308	CD1	TYR	B	201	28.201	26.458	23.706	1.00	16.01
7309	CE1	TYR	B	201	27.535	27.680	23.755	1.00	17.27
7310	CZ	TYR	B	201	26.963	28.176	22.625	1.00	16.51
7311	OH	TYR	B	201	26.334	29.383	22.578	1.00	13.52
7312	CE2	TYR	B	201	27.055	27.509	21.468	1.00	17.71
7313	CD2	TYR	B	201	27.738	26.314	21.411	1.00	18.42
7314	C	TYR	B	201	28.996	22.083	21.930	1.00	10.85
7315	O	TYR	B	201	28.516	21.826	20.875	1.00	9.65
7316	N	GLU	B	202	29.996	21.384	22.390	1.00	13.32
7317	CA	GLU	B	202	30.394	20.159	21.658	1.00	12.96
7318	CB	GLU	B	202	31.606	19.504	22.303	1.00	13.20
7319	CG	GLU	B	202	32.131	18.275	21.637	1.00	9.48
7320	CD	GLU	B	202	33.351	17.721	22.273	1.00	15.34
7321	OE1	GLU	B	202	33.526	16.507	22.082	1.00	24.76
7322	OE2	GLU	B	202	34.145	18.431	22.993	1.00	18.89
7323	C	GLU	B	202	29.291	19.142	21.620	1.00	14.10
7324	O	GLU	B	202	28.949	18.639	20.601	1.00	15.25
7325	N	GLU	B	203	28.730	18.771	22.743	1.00	15.48
7326	CA	GLU	B	203	27.800	17.653	22.720	1.00	15.64
7327	CB	GLU	B	203	27.785	17.105	24.094	1.00	16.52
7328	CG	GLU	B	203	26.804	15.953	24.423	1.00	19.63
7329	CD	GLU	B	203	26.880	14.800	23.502	1.00	15.91
7330	OE1	GLU	B	203	27.965	14.498	23.084	1.00	22.64
7331	OE2	GLU	B	203	25.854	14.222	23.197	1.00	16.14
7332	C	GLU	B	203	26.394	18.071	22.283	1.00	16.67
7333	O	GLU	B	203	25.607	17.221	21.820	1.00	17.12
7334	N	GLU	B	204	26.027	19.359	22.453	1.00	15.81
7335	CA	GLU	B	204	24.608	19.682	22.354	1.00	17.29

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7336	CB	GLU	B	204	24.003	20.103	23.747	1.00	16.58
7337	CG	GLU	B	204	24.383	19.157	24.912	1.00	18.47
7338	CD	GLU	B	204	23.555	17.895	24.946	1.00	20.77
7339	OE1	GLU	B	204	23.750	17.116	25.937	1.00	20.77
7340	OE2	GLU	B	204	22.696	17.689	24.034	1.00	19.42
7341	C	GLU	B	204	24.248	20.702	21.305	1.00	17.77
7342	O	GLU	B	204	23.009	20.788	20.957	1.00	19.00
7343	N	MET	B	205	25.231	21.528	20.846	1.00	15.98
7344	CA	MET	B	205	24.958	22.453	19.728	1.00	16.89
7345	CB	MET	B	205	25.285	23.909	20.146	1.00	17.01
7346	CG	MET	B	205	24.684	24.926	19.255	1.00	9.81
7347	SD	MET	B	205	22.916	25.001	19.380	1.00	11.59
7348	CE	MET	B	205	22.776	25.333	21.108	1.00	7.99
7349	C	MET	B	205	25.664	22.097	18.432	1.00	17.30
7350	O	MET	B	205	25.040	21.966	17.386	1.00	20.29
7351	N	LEU	B	206	26.971	21.974	18.488	1.00	17.59
7352	CA	LEU	B	206	27.733	21.872	17.286	1.00	17.35
7353	CB	LEU	B	206	29.082	22.578	17.439	1.00	16.13
7354	CG	LEU	B	206	28.986	24.034	17.923	1.00	14.05
7355	CD1	LEU	B	206	30.354	24.631	18.151	1.00	14.30
7356	CD2	LEU	B	206	28.325	24.923	17.000	1.00	12.85
7357	C	LEU	B	206	27.969	20.412	16.901	1.00	17.07
7358	O	LEU	B	206	28.015	20.090	15.749	1.00	17.92
7359	N	ALA	B	207	28.145	19.526	17.826	1.00	15.77
7360	CA	ALA	B	207	28.294	18.145	17.392	1.00	16.24
7361	CB	ALA	B	207	27.038	17.649	16.632	1.00	13.08
7362	C	ALA	B	207	29.592	17.974	16.550	1.00	16.00
7363	O	ALA	B	207	29.694	17.090	15.681	1.00	17.55
7364	N	THR	B	208	30.532	18.873	16.816	1.00	16.63
7365	CA	THR	B	208	31.852	18.867	16.275	1.00	17.42
7366	CB	THR	B	208	32.112	19.999	15.299	1.00	17.29
7367	OG1	THR	B	208	31.923	21.250	15.972	1.00	25.80
7368	CG2	THR	B	208	31.236	19.990	14.181	1.00	17.32
7369	C	THR	B	208	32.895	19.146	17.316	1.00	15.69
7370	O	THR	B	208	32.624	19.640	18.389	1.00	14.30
7371	N	LYS	B	209	34.124	18.933	16.935	1.00	16.46
7372	CA	LYS	B	209	35.249	19.151	17.869	1.00	15.00
7373	CB	LYS	B	209	36.268	18.086	17.713	1.00	15.41
7374	CG	LYS	B	209	37.245	18.238	16.536	1.00	13.34
7375	CD	LYS	B	209	38.363	17.078	16.631	1.00	12.35
7376	CE	LYS	B	209	39.663	17.599	17.288	1.00	5.52
7377	NZ	LYS	B	209	40.828	16.636	17.316	1.00	2.86
7378	C	LYS	B	209	35.828	20.482	17.572	1.00	15.28
7379	O	LYS	B	209	36.804	20.874	18.147	1.00	13.37
7380	N	TYR	B	210	35.177	21.241	16.712	1.00	13.17
7381	CA	TYR	B	210	35.816	22.525	16.328	1.00	12.58
7382	CB	TYR	B	210	36.472	22.408	14.974	1.00	15.50
7383	CG	TYR	B	210	35.505	22.047	13.861	1.00	13.98
7384	CD1	TYR	B	210	35.245	20.724	13.572	1.00	17.53
7385	CE1	TYR	B	210	34.310	20.368	12.652	1.00	17.21
7386	CZ	TYR	B	210	33.690	21.293	11.950	1.00	19.77

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7387	OH	TYR	B	210	32.835	20.858	10.974	1.00	24.77
7388	CE2	TYR	B	210	33.963	22.637	12.146	1.00	18.92
7389	CD2	TYR	B	210	34.904	23.007	13.087	1.00	11.03
7390	C	TYR	B	210	34.820	23.580	16.263	1.00	14.09
7391	O	TYR	B	210	33.564	23.286	16.198	1.00	11.90
7392	N	ALA	B	211	35.349	24.800	16.302	1.00	13.03
7393	CA	ALA	B	211	34.577	26.020	16.112	1.00	13.14
7394	CB	ALA	B	211	34.104	26.514	17.453	1.00	12.31
7395	C	ALA	B	211	35.399	27.154	15.495	1.00	15.33
7396	O	ALA	B	211	35.476	28.283	16.045	1.00	16.70
7397	N	LEU	B	212	35.999	26.901	14.346	1.00	14.20
7398	CA	LEU	B	212	36.622	27.962	13.569	1.00	12.72
7399	CB	LEU	B	212	38.127	28.124	13.954	1.00	13.40
7400	CG	LEU	B	212	39.059	26.914	14.032	1.00	9.24
7401	CD1	LEU	B	212	39.501	26.407	12.715	1.00	19.87
7402	CD2	LEU	B	212	40.279	27.185	14.715	1.00	16.66
7403	C	LEU	B	212	36.380	27.428	12.155	1.00	13.55
7404	O	LEU	B	212	36.274	26.310	11.919	1.00	14.26
7405	N	TRP	B	213	36.137	28.294	11.232	1.00	16.08
7406	CA	TRP	B	213	35.699	28.024	9.867	1.00	13.82
7407	CB	TRP	B	213	34.258	28.319	9.739	1.00	13.43
7408	CG	TRP	B	213	33.435	27.519	10.642	1.00	16.88
7409	CD1	TRP	B	213	32.875	26.280	10.364	1.00	16.27
7410	NE1	TRP	B	213	32.197	25.829	11.464	1.00	18.00
7411	CE2	TRP	B	213	32.261	26.768	12.468	1.00	16.97
7412	CD2	TRP	B	213	33.021	27.853	11.986	1.00	18.20
7413	CE3	TRP	B	213	33.281	28.911	12.844	1.00	14.65
7414	CZ3	TRP	B	213	32.754	28.890	14.054	1.00	16.46
7415	CH2	TRP	B	213	32.013	27.817	14.515	1.00	13.06
7416	CZ2	TRP	B	213	31.714	26.753	13.705	1.00	10.46
7417	C	TRP	B	213	36.408	29.037	9.032	1.00	12.82
7418	O	TRP	B	213	36.203	30.176	9.259	1.00	12.43
7419	N	TRP	B	214	37.246	28.542	8.137	1.00	12.05
7420	CA	TRP	B	214	37.841	29.260	7.014	1.00	11.35
7421	CB	TRP	B	214	38.927	28.476	6.289	1.00	8.14
7422	CG	TRP	B	214	40.127	28.147	7.020	1.00	12.36
7423	CD1	TRP	B	214	40.323	27.040	7.695	1.00	12.73
7424	NE1	TRP	B	214	41.604	27.019	8.192	1.00	14.99
7425	CE2	TRP	B	214	42.265	28.154	7.792	1.00	7.72
7426	CD2	TRP	B	214	41.418	28.853	7.019	1.00	8.24
7427	CE3	TRP	B	214	41.863	30.034	6.497	1.00	12.20
7428	CZ3	TRP	B	214	43.148	30.448	6.717	1.00	8.74
7429	CH2	TRP	B	214	43.992	29.726	7.473	1.00	5.89
7430	CZ2	TRP	B	214	43.570	28.563	8.031	1.00	13.51
7431	C	TRP	B	214	36.811	29.685	6.001	1.00	11.56
7432	O	TRP	B	214	35.824	28.943	5.716	1.00	14.92
7433	N	SER	B	215	37.050	30.886	5.440	1.00	10.14
7434	CA	SER	B	215	36.145	31.449	4.439	1.00	9.89
7435	CB	SER	B	215	36.338	32.920	4.274	1.00	9.23
7436	OG	SER	B	215	37.573	33.260	3.784	1.00	9.21
7437	C	SER	B	215	36.629	30.740	3.239	1.00	8.69

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7438	O	SER	B	215	37.642	30.075	3.356	1.00	5.90
7439	N	PRO	B	216	35.807	30.694	2.193	1.00	10.53
7440	CA	PRO	B	216	36.001	29.804	1.017	1.00	10.54
7441	CB	PRO	B	216	34.878	30.293	0.053	1.00	12.23
7442	CG	PRO	B	216	33.755	30.710	0.924	1.00	8.08
7443	CD	PRO	B	216	34.396	31.187	2.223	1.00	8.79
7444	C	PRO	B	216	37.345	29.644	0.337	1.00	14.07
7445	O	PRO	B	216	37.802	28.516	-0.100	1.00	13.58
7446	N	ASN	B	217	37.997	30.806	0.290	1.00	14.23
7447	CA	ASN	B	217	39.255	30.945	-0.362	1.00	15.93
7448	CB	ASN	B	217	39.152	32.038	-1.522	1.00	15.91
7449	CG	ASN	B	217	38.222	31.579	-2.719	1.00	18.86
7450	OD1	ASN	B	217	36.962	31.987	-2.888	1.00	13.16
7451	ND2	ASN	B	217	38.816	30.708	-3.553	1.00	17.60
7452	C	ASN	B	217	40.352	31.276	0.667	1.00	14.94
7453	O	ASN	B	217	41.323	31.864	0.307	1.00	13.84
7454	N	GLY	B	218	40.214	30.902	1.930	1.00	13.58
7455	CA	GLY	B	218	41.207	31.380	2.897	1.00	11.00
7456	C	GLY	B	218	41.195	32.898	3.225	1.00	9.56
7457	O	GLY	B	218	41.944	33.322	4.118	1.00	10.32
7458	N	LYS	B	219	40.387	33.787	2.664	1.00	5.90
7459	CA	LYS	B	219	40.640	35.157	3.202	1.00	6.21
7460	CB	LYS	B	219	40.387	36.294	2.228	1.00	6.57
7461	CG	LYS	B	219	39.364	37.119	2.515	1.00	13.85
7462	CD	LYS	B	219	39.248	38.329	1.505	1.00	22.24
7463	CE	LYS	B	219	39.655	39.699	2.085	1.00	23.16
7464	NZ	LYS	B	219	41.106	39.926	1.773	1.00	29.07
7465	C	LYS	B	219	40.454	35.471	4.670	1.00	6.39
7466	O	LYS	B	219	41.231	36.233	5.290	1.00	4.85
7467	N	PHE	B	220	39.533	34.749	5.321	1.00	7.95
7468	CA	PHE	B	220	39.253	35.006	6.712	1.00	7.65
7469	CB	PHE	B	220	38.054	35.837	6.892	1.00	6.53
7470	CG	PHE	B	220	37.954	37.135	6.077	1.00	11.23
7471	CD1	PHE	B	220	38.154	38.373	6.693	1.00	11.19
7472	CE1	PHE	B	220	37.882	39.620	6.062	1.00	6.16
7473	CZ	PHE	B	220	37.363	39.644	4.824	1.00	5.18
7474	CE2	PHE	B	220	37.149	38.432	4.200	1.00	16.09
7475	CD2	PHE	B	220	37.411	37.149	4.880	1.00	11.90
7476	C	PHE	B	220	39.024	33.765	7.515	1.00	9.52
7477	O	PHE	B	220	38.754	32.655	6.944	1.00	11.61
7478	N	LEU	B	221	39.138	33.909	8.851	1.00	9.54
7479	CA	LEU	B	221	38.895	32.795	9.740	1.00	10.89
7480	CB	LEU	B	221	40.188	32.254	10.305	1.00	12.70
7481	CG	LEU	B	221	40.193	31.058	11.222	1.00	15.55
7482	CD1	LEU	B	221	39.901	29.796	10.494	1.00	13.85
7483	CD2	LEU	B	221	41.546	30.883	11.782	1.00	17.02
7484	C	LEU	B	221	38.014	33.299	10.794	1.00	11.91
7485	O	LEU	B	221	38.240	34.330	11.339	1.00	12.00
7486	N	ALA	B	222	36.863	32.639	10.907	1.00	13.27
7487	CA	ALA	B	222	35.775	33.022	11.811	1.00	13.11
7488	CB	ALA	B	222	34.552	32.865	11.154	1.00	13.36

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7489	C	ALA	B	222	35.930	31.980	12.908	1.00	13.37
7490	O	ALA	B	222	36.508	30.883	12.620	1.00	11.27
7491	N	TYR	B	223	35.591	32.325	14.156	1.00	10.78
7492	CA	TYR	B	223	36.045	31.425	15.279	1.00	10.19
7493	CB	TYR	B	223	37.530	31.532	15.627	1.00	12.19
7494	CG	TYR	B	223	38.147	32.898	16.121	1.00	12.43
7495	CD1	TYR	B	223	37.989	33.333	17.440	1.00	12.99
7496	CE1	TYR	B	223	38.545	34.485	17.888	1.00	9.74
7497	CZ	TYR	B	223	39.290	35.302	17.003	1.00	14.42
7498	OH	TYR	B	223	39.819	36.505	17.444	1.00	13.34
7499	CE2	TYR	B	223	39.464	34.913	15.741	1.00	11.93
7500	CD2	TYR	B	223	38.891	33.672	15.313	1.00	13.55
7501	C	TYR	B	223	35.153	31.766	16.375	1.00	10.77
7502	O	TYR	B	223	34.659	32.902	16.375	1.00	10.75
7503	N	ALA	B	224	34.788	30.790	17.213	1.00	7.65
7504	CA	ALA	B	224	33.985	31.184	18.347	1.00	8.97
7505	CB	ALA	B	224	32.923	30.098	18.686	1.00	7.48
7506	C	ALA	B	224	34.877	31.395	19.533	1.00	10.81
7507	O	ALA	B	224	35.861	30.735	19.649	1.00	12.12
7508	N	GLU	B	225	34.521	32.232	20.477	1.00	9.22
7509	CA	GLU	B	225	35.173	32.149	21.778	1.00	10.35
7510	CB	GLU	B	225	35.993	33.322	22.074	1.00	10.51
7511	CG	GLU	B	225	36.180	33.597	23.515	1.00	12.73
7512	CD	GLU	B	225	36.205	35.132	23.795	1.00	15.27
7513	OE1	GLU	B	225	37.253	35.752	23.721	1.00	6.97
7514	OE2	GLU	B	225	35.162	35.728	24.079	1.00	21.39
7515	C	GLU	B	225	34.090	31.961	22.872	1.00	11.41
7516	O	GLU	B	225	33.173	32.783	23.077	1.00	11.47
7517	N	PHE	B	226	34.223	30.816	23.543	1.00	10.95
7518	CA	PHE	B	226	33.398	30.458	24.678	1.00	9.16
7519	CB	PHE	B	226	33.135	28.998	24.531	1.00	7.87
7520	CG	PHE	B	226	32.551	28.603	23.219	1.00	5.34
7521	CD1	PHE	B	226	31.241	28.570	23.061	1.00	6.13
7522	CE1	PHE	B	226	30.721	28.157	21.929	1.00	6.20
7523	CZ	PHE	B	226	31.479	27.749	20.942	1.00	7.43
7524	CE2	PHE	B	226	32.798	27.664	21.107	1.00	7.42
7525	CD2	PHE	B	226	33.334	28.049	22.246	1.00	7.23
7526	C	PHE	B	226	34.020	30.702	26.075	1.00	9.54
7527	O	PHE	B	226	35.127	30.148	26.418	1.00	10.21
7528	N	ASN	B	227	33.283	31.444	26.883	1.00	7.73
7529	CA	ASN	B	227	33.609	31.787	28.280	1.00	10.20
7530	CB	ASN	B	227	33.415	33.372	28.534	1.00	10.48
7531	CG	ASN	B	227	34.026	33.864	29.857	1.00	15.18
7532	OD1	ASN	B	227	34.054	33.045	30.776	1.00	18.42
7533	ND2	ASN	B	227	34.511	35.200	29.986	1.00	22.10
7534	C	ASN	B	227	32.766	30.863	29.212	1.00	10.48
7535	O	ASN	B	227	31.587	30.973	29.314	1.00	8.56
7536	N	ASP	B	228	33.387	29.917	29.863	1.00	11.27
7537	CA	ASP	B	228	32.728	29.048	30.831	1.00	13.68
7538	CB	ASP	B	228	33.216	27.634	30.638	1.00	13.39
7539	CG	ASP	B	228	32.523	26.888	29.581	1.00	15.95

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7540	OD1	ASP	B	228	32.957	25.724	29.370	1.00	16.88
7541	OD2	ASP	B	228	31.641	27.312	28.827	1.00	15.50
7542	C	ASP	B	228	33.093	29.424	32.302	1.00	15.13
7543	O	ASP	B	228	32.972	28.547	33.255	1.00	14.41
7544	N	THR	B	229	33.566	30.695	32.471	1.00	16.95
7545	CA	THR	B	229	34.019	31.194	33.764	1.00	17.81
7546	CB	THR	B	229	34.828	32.567	33.832	1.00	18.79
7547	OG1	THR	B	229	35.640	32.887	32.690	1.00	20.96
7548	CG2	THR	B	229	35.871	32.389	34.882	1.00	18.36
7549	C	THR	B	229	32.991	31.223	34.898	1.00	18.66
7550	O	THR	B	229	33.372	30.792	36.021	1.00	18.20
7551	N	ASP	B	230	31.769	31.718	34.807	1.00	17.78
7552	CA	ASP	B	230	31.056	31.343	36.078	1.00	19.38
7553	CB	ASP	B	230	30.264	32.460	36.750	1.00	19.68
7554	CG	ASP	B	230	31.091	33.749	36.929	1.00	26.53
7555	OD1	ASP	B	230	30.677	34.717	36.213	1.00	27.41
7556	OD2	ASP	B	230	32.094	33.880	37.760	1.00	27.49
7557	C	ASP	B	230	30.192	30.094	35.926	1.00	18.95
7558	O	ASP	B	230	29.445	29.701	36.845	1.00	19.52
7559	N	ILE	B	231	30.271	29.384	34.826	1.00	17.13
7560	CA	ILE	B	231	29.417	28.214	34.917	1.00	15.89
7561	CB	ILE	B	231	29.091	27.605	33.596	1.00	16.66
7562	CG1	ILE	B	231	30.123	26.576	33.195	1.00	16.21
7563	CD1	ILE	B	231	29.926	26.295	31.592	1.00	20.98
7564	CG2	ILE	B	231	28.859	28.679	32.533	1.00	11.98
7565	C	ILE	B	231	29.838	27.171	35.996	1.00	14.75
7566	O	ILE	B	231	30.976	27.037	36.358	1.00	15.42
7567	N	PRO	B	232	28.873	26.556	36.651	1.00	14.23
7568	CA	PRO	B	232	29.249	25.618	37.675	1.00	14.40
7569	CB	PRO	B	232	27.957	25.468	38.451	1.00	12.95
7570	CG	PRO	B	232	27.167	26.631	38.021	1.00	14.72
7571	CD	PRO	B	232	27.416	26.712	36.602	1.00	13.47
7572	C	PRO	B	232	29.815	24.290	37.078	1.00	14.77
7573	O	PRO	B	232	29.560	23.983	35.946	1.00	15.67
7574	N	VAL	B	233	30.535	23.536	37.874	1.00	14.36
7575	CA	VAL	B	233	31.422	22.494	37.394	1.00	14.80
7576	CB	VAL	B	233	32.805	22.779	37.961	1.00	14.34
7577	CG1	VAL	B	233	33.770	21.672	37.743	1.00	16.27
7578	CG2	VAL	B	233	33.334	24.078	37.325	1.00	10.28
7579	C	VAL	B	233	30.825	21.149	37.853	1.00	15.54
7580	O	VAL	B	233	30.482	20.991	38.950	1.00	16.44
7581	N	ILE	B	234	30.608	20.204	36.979	1.00	14.76
7582	CA	ILE	B	234	30.437	18.846	37.475	1.00	14.91
7583	CB	ILE	B	234	29.689	17.921	36.487	1.00	14.05
7584	CG1	ILE	B	234	29.467	16.593	37.111	1.00	14.93
7585	CD1	ILE	B	234	28.326	16.560	38.158	1.00	8.99
7586	CG2	ILE	B	234	30.450	17.685	35.228	1.00	14.35
7587	C	ILE	B	234	31.827	18.327	37.842	1.00	14.85
7588	O	ILE	B	234	32.750	18.354	37.044	1.00	14.53
7589	N	ALA	B	235	31.926	17.867	39.094	1.00	15.27
7590	CA	ALA	B	235	33.094	17.157	39.654	1.00	13.75

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7591	CB	ALA	B	235	33.477	17.868	40.906	1.00	13.45
7592	C	ALA	B	235	32.818	15.631	39.924	1.00	13.43
7593	O	ALA	B	235	31.718	15.280	40.279	1.00	13.19
7594	N	TYR	B	236	33.750	14.741	39.636	1.00	13.07
7595	CA	TYR	B	236	33.542	13.264	39.811	1.00	13.54
7596	CB	TYR	B	236	32.660	12.512	38.732	1.00	10.80
7597	CG	TYR	B	236	33.028	12.758	37.251	1.00	15.57
7598	CD1	TYR	B	236	33.965	11.996	36.672	1.00	12.82
7599	CE1	TYR	B	236	34.344	12.161	35.446	1.00	20.05
7600	CZ	TYR	B	236	33.816	13.111	34.635	1.00	21.01
7601	OH	TYR	B	236	34.374	13.107	33.397	1.00	26.76
7602	CE2	TYR	B	236	32.793	13.943	35.107	1.00	16.12
7603	CD2	TYR	B	236	32.377	13.727	36.430	1.00	14.81
7604	C	TYR	B	236	34.914	12.578	39.904	1.00	14.59
7605	O	TYR	B	236	35.933	13.201	39.628	1.00	16.61
7606	N	SER	B	237	34.922	11.308	40.301	1.00	14.68
7607	CA	SER	B	237	36.115	10.659	40.524	1.00	15.35
7608	CB	SER	B	237	36.035	9.794	41.763	1.00	15.25
7609	OG	SER	B	237	36.041	10.655	42.868	1.00	20.27
7610	C	SER	B	237	36.523	9.890	39.294	1.00	14.54
7611	O	SER	B	237	35.694	9.295	38.597	1.00	16.82
7612	N	TYR	B	238	37.824	9.937	39.057	1.00	11.89
7613	CA	TYR	B	238	38.472	9.110	38.071	1.00	12.45
7614	CB	TYR	B	238	39.080	9.949	36.943	1.00	10.50
7615	CG	TYR	B	238	39.560	9.060	35.886	1.00	16.01
7616	CD1	TYR	B	238	40.805	8.543	35.954	1.00	18.54
7617	CE1	TYR	B	238	41.233	7.672	35.042	1.00	20.84
7618	CZ	TYR	B	238	40.404	7.275	34.044	1.00	21.03
7619	OH	TYR	B	238	40.879	6.355	33.100	1.00	27.85
7620	CE2	TYR	B	238	39.183	7.783	33.945	1.00	12.90
7621	CD2	TYR	B	238	38.762	8.675	34.857	1.00	12.02
7622	C	TYR	B	238	39.500	8.427	38.900	1.00	10.76
7623	O	TYR	B	238	40.360	9.119	39.459	1.00	11.58
7624	N	TYR	B	239	39.360	7.103	39.081	1.00	11.42
7625	CA	TYR	B	239	40.294	6.260	39.898	1.00	10.76
7626	CB	TYR	B	239	39.599	4.945	40.316	1.00	11.49
7627	CG	TYR	B	239	38.283	5.267	41.017	1.00	13.52
7628	CD1	TYR	B	239	38.254	5.802	42.279	1.00	12.44
7629	CE1	TYR	B	239	37.069	6.189	42.843	1.00	11.31
7630	CZ	TYR	B	239	35.914	6.057	42.169	1.00	15.47
7631	OH	TYR	B	239	34.701	6.468	42.677	1.00	15.22
7632	CE2	TYR	B	239	35.934	5.544	40.915	1.00	14.82
7633	CD2	TYR	B	239	37.097	5.165	40.351	1.00	12.51
7634	C	TYR	B	239	41.679	5.974	39.279	1.00	11.55
7635	O	TYR	B	239	42.711	5.783	39.964	1.00	12.88
7636	N	GLY	B	240	41.731	5.877	37.963	1.00	12.89
7637	CA	GLY	B	240	43.000	5.758	37.243	1.00	12.99
7638	C	GLY	B	240	43.859	4.628	37.791	1.00	13.73
7639	O	GLY	B	240	43.369	3.721	38.422	1.00	13.64
7640	N	ASP	B	241	45.148	4.661	37.526	1.00	14.61
7641	CA	ASP	B	241	46.018	3.594	38.052	1.00	14.50

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7642	CB	ASP	B	241	46.826	2.894	36.929	1.00	15.71
7643	CG	ASP	B	241	45.932	2.411	35.736	1.00	23.59
7644	OD1	ASP	B	241	44.830	1.777	35.988	1.00	33.86
7645	OD2	ASP	B	241	46.235	2.641	34.514	1.00	28.12
7646	C	ASP	B	241	46.913	4.083	39.193	1.00	13.91
7647	O	ASP	B	241	47.842	3.402	39.550	1.00	11.33
7648	N	GLU	B	242	46.598	5.218	39.812	1.00	12.84
7649	CA	GLU	B	242	47.467	5.718	40.866	1.00	14.20
7650	CB	GLU	B	242	47.681	7.238	40.894	1.00	13.23
7651	CG	GLU	B	242	48.363	7.881	39.690	1.00	16.26
7652	CD	GLU	B	242	49.669	7.234	39.127	1.00	20.66
7653	OE1	GLU	B	242	49.752	7.159	37.859	1.00	22.17
7654	OE2	GLU	B	242	50.648	6.881	39.848	1.00	19.67
7655	C	GLU	B	242	46.965	5.219	42.211	1.00	13.38
7656	O	GLU	B	242	46.027	4.438	42.254	1.00	12.45
7657	N	GLN	B	243	47.782	5.513	43.245	1.00	14.76
7658	CA	GLN	B	243	47.408	5.440	44.630	1.00	13.47
7659	CB	GLN	B	243	48.540	5.892	45.509	1.00	13.91
7660	CG	GLN	B	243	48.187	5.740	46.979	1.00	12.50
7661	CD	GLN	B	243	49.375	5.610	47.803	1.00	11.23
7662	OE1	GLN	B	243	49.522	4.674	48.539	1.00	14.33
7663	NE2	GLN	B	243	50.223	6.569	47.705	1.00	11.91
7664	C	GLN	B	243	46.212	6.318	44.959	1.00	13.74
7665	O	GLN	B	243	45.332	5.848	45.656	1.00	14.54
7666	N	TYR	B	244	46.178	7.584	44.535	1.00	13.16
7667	CA	TYR	B	244	44.939	8.406	44.808	1.00	13.73
7668	CB	TYR	B	244	45.239	9.804	45.281	1.00	13.10
7669	CG	TYR	B	244	45.764	9.781	46.656	1.00	12.92
7670	CD1	TYR	B	244	44.976	10.133	47.719	1.00	14.87
7671	CE1	TYR	B	244	45.493	10.116	49.052	1.00	17.87
7672	CZ	TYR	B	244	46.773	9.725	49.258	1.00	14.70
7673	OH	TYR	B	244	47.249	9.721	50.516	1.00	18.03
7674	CE2	TYR	B	244	47.543	9.304	48.200	1.00	14.27
7675	CD2	TYR	B	244	47.027	9.363	46.914	1.00	11.69
7676	C	TYR	B	244	44.091	8.536	43.615	1.00	13.86
7677	O	TYR	B	244	44.578	8.465	42.518	1.00	16.62
7678	N	PRO	B	245	42.816	8.769	43.784	1.00	13.56
7679	CA	PRO	B	245	41.982	9.027	42.643	1.00	13.19
7680	CB	PRO	B	245	40.589	8.629	43.163	1.00	11.51
7681	CG	PRO	B	245	40.749	8.138	44.557	1.00	10.26
7682	CD	PRO	B	245	42.001	8.861	45.012	1.00	13.97
7683	C	PRO	B	245	42.038	10.514	42.339	1.00	14.91
7684	O	PRO	B	245	42.504	11.239	43.181	1.00	13.14
7685	N	ARG	B	246	41.499	10.954	41.178	1.00	16.72
7686	CA	ARG	B	246	41.487	12.372	40.813	1.00	17.16
7687	CB	ARG	B	246	42.451	12.771	39.645	1.00	18.57
7688	CG	ARG	B	246	42.704	11.754	38.484	1.00	22.24
7689	CD	ARG	B	246	43.888	12.043	37.440	1.00	28.64
7690	NE	ARG	B	246	43.359	12.480	36.118	1.00	33.72
7691	CZ	ARG	B	246	42.888	13.746	35.872	1.00	37.79
7692	NH1	ARG	B	246	42.944	14.697	36.839	1.00	36.61

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7693	NH2	ARG	B	246	42.345	14.069	34.677	1.00	39.27
7694	C	ARG	B	246	40.089	12.851	40.616	1.00	16.52
7695	O	ARG	B	246	39.131	12.149	40.237	1.00	18.13
7696	N	THR	B	247	39.916	14.078	41.025	1.00	16.05
7697	CA	THR	B	247	38.739	14.780	40.652	1.00	17.41
7698	CB	THR	B	247	38.414	15.822	41.674	1.00	17.41
7699	OG1	THR	B	247	38.130	15.136	42.902	1.00	23.93
7700	CG2	THR	B	247	37.080	16.508	41.356	1.00	14.41
7701	C	THR	B	247	38.979	15.286	39.262	1.00	16.64
7702	O	THR	B	247	40.134	15.659	38.922	1.00	17.23
7703	N	ILE	B	248	37.912	15.112	38.465	1.00	15.75
7704	CA	ILE	B	248	37.641	15.664	37.143	1.00	16.22
7705	CB	ILE	B	248	37.028	14.615	36.175	1.00	17.53
7706	CG1	ILE	B	248	37.904	13.317	36.038	1.00	20.50
7707	CD1	ILE	B	248	39.284	13.498	35.468	1.00	19.42
7708	CG2	ILE	B	248	36.865	15.173	34.838	1.00	17.86
7709	C	ILE	B	248	36.618	16.678	37.398	1.00	15.18
7710	O	ILE	B	248	35.774	16.467	38.203	1.00	14.74
7711	N	ASN	B	249	36.780	17.807	36.739	1.00	14.56
7712	CA	ASN	B	249	35.961	18.930	36.808	1.00	12.98
7713	CB	ASN	B	249	36.694	20.009	37.607	1.00	14.01
7714	CG	ASN	B	249	36.321	20.043	39.097	1.00	15.34
7715	OD1	ASN	B	249	35.548	19.244	39.570	1.00	17.58
7716	ND2	ASN	B	249	36.828	21.005	39.802	1.00	12.06
7717	C	ASN	B	249	35.693	19.371	35.311	1.00	13.55
7718	O	ASN	B	249	36.611	19.749	34.539	1.00	10.08
7719	N	ILE	B	250	34.398	19.360	34.920	1.00	12.29
7720	CA	ILE	B	250	33.961	20.055	33.721	1.00	14.42
7721	CB	ILE	B	250	33.364	19.066	32.789	1.00	14.75
7722	CG1	ILE	B	250	34.010	17.775	32.819	1.00	10.71
7723	CD1	ILE	B	250	33.060	16.780	32.117	1.00	8.34
7724	CG2	ILE	B	250	33.517	19.479	31.375	1.00	18.51
7725	C	ILE	B	250	32.864	21.176	33.889	1.00	13.55
7726	O	ILE	B	250	31.836	20.923	34.479	1.00	14.48
7727	N	PRO	B	251	33.073	22.375	33.363	1.00	12.77
7728	CA	PRO	B	251	32.064	23.497	33.382	1.00	11.24
7729	CB	PRO	B	251	32.756	24.581	32.621	1.00	8.82
7730	CG	PRO	B	251	34.182	24.359	32.949	1.00	9.01
7731	CD	PRO	B	251	34.312	22.785	32.682	1.00	12.23
7732	C	PRO	B	251	30.895	23.077	32.618	1.00	10.26
7733	O	PRO	B	251	31.078	22.881	31.461	1.00	11.15
7734	N	TYR	B	252	29.788	22.741	33.272	1.00	10.89
7735	CA	TYR	B	252	28.770	21.838	32.698	1.00	10.49
7736	CB	TYR	B	252	28.954	20.368	33.191	1.00	10.96
7737	CG	TYR	B	252	27.832	19.438	32.642	1.00	15.07
7738	CD1	TYR	B	252	28.108	18.417	31.773	1.00	15.20
7739	CE1	TYR	B	252	27.106	17.625	31.325	1.00	17.27
7740	CZ	TYR	B	252	25.836	17.912	31.719	1.00	14.32
7741	OH	TYR	B	252	24.852	17.262	31.215	1.00	14.00
7742	CE2	TYR	B	252	25.541	18.970	32.469	1.00	15.02
7743	CD2	TYR	B	252	26.514	19.687	32.930	1.00	15.83

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7744	C	TYR	B	252	27.439	22.388	33.138	1.00	9.61
7745	O	TYR	B	252	27.135	22.264	34.259	1.00	8.26
7746	N	PRO	B	253	26.739	23.158	32.313	1.00	11.44
7747	CA	PRO	B	253	25.546	23.853	32.772	1.00	12.82
7748	CB	PRO	B	253	25.414	25.031	31.789	1.00	12.13
7749	CG	PRO	B	253	25.842	24.436	30.528	1.00	8.80
7750	CD	PRO	B	253	27.030	23.559	30.919	1.00	10.70
7751	C	PRO	B	253	24.364	22.945	32.750	1.00	12.70
7752	O	PRO	B	253	23.918	22.534	31.699	1.00	15.48
7753	N	LYS	B	254	23.893	22.643	33.941	1.00	14.20
7754	CA	LYS	B	254	22.668	21.863	34.086	1.00	13.42
7755	CB	LYS	B	254	22.638	21.111	35.432	1.00	15.22
7756	CG	LYS	B	254	23.803	20.178	35.699	1.00	12.13
7757	CD	LYS	B	254	23.686	19.463	37.143	1.00	12.83
7758	CE	LYS	B	254	24.774	18.281	37.363	1.00	14.00
7759	NZ	LYS	B	254	24.628	17.240	36.352	1.00	12.34
7760	C	LYS	B	254	21.534	22.812	33.976	1.00	13.29
7761	O	LYS	B	254	21.700	23.981	33.912	1.00	15.19
7762	N	ALA	B	255	20.375	22.266	33.877	1.00	12.43
7763	CA	ALA	B	255	19.214	23.015	33.665	1.00	12.92
7764	CB	ALA	B	255	18.059	22.144	33.810	1.00	11.87
7765	C	ALA	B	255	19.035	24.242	34.554	1.00	11.93
7766	O	ALA	B	255	19.081	24.160	35.764	1.00	12.70
7767	N	GLY	B	256	18.708	25.339	33.908	1.00	10.28
7768	CA	GLY	B	256	18.539	26.598	34.545	1.00	7.73
7769	C	GLY	B	256	19.805	27.173	35.054	1.00	7.68
7770	O	GLY	B	256	19.784	28.274	35.470	1.00	7.29
7771	N	ALA	B	257	20.908	26.493	34.931	1.00	4.99
7772	CA	ALA	B	257	22.107	27.031	35.430	1.00	7.32
7773	CB	ALA	B	257	23.070	25.910	35.533	1.00	6.39
7774	C	ALA	B	257	22.721	28.123	34.585	1.00	8.52
7775	O	ALA	B	257	22.196	28.443	33.498	1.00	11.93
7776	N	LYS	B	258	23.874	28.661	34.958	1.00	8.78
7777	CA	LYS	B	258	24.391	29.663	34.027	1.00	9.36
7778	CB	LYS	B	258	25.074	30.883	34.722	1.00	9.17
7779	CG	LYS	B	258	26.521	31.164	34.591	1.00	10.86
7780	CD	LYS	B	258	27.046	32.201	33.452	1.00	12.86
7781	CE	LYS	B	258	27.436	33.739	33.932	1.00	15.90
7782	NZ	LYS	B	258	27.505	34.801	32.804	1.00	7.68
7783	C	LYS	B	258	25.131	29.005	32.875	1.00	8.55
7784	O	LYS	B	258	25.852	28.035	33.043	1.00	9.27
7785	N	ASN	B	259	24.865	29.550	31.689	1.00	6.70
7786	CA	ASN	B	259	25.378	29.142	30.430	1.00	6.78
7787	CB	ASN	B	259	24.329	29.421	29.380	1.00	3.41
7788	CG	ASN	B	259	23.424	28.245	29.223	1.00	7.69
7789	OD1	ASN	B	259	23.787	27.094	29.631	1.00	6.96
7790	ND2	ASN	B	259	22.280	28.471	28.683	1.00	2.00
7791	C	ASN	B	259	26.654	29.857	30.019	1.00	7.36
7792	O	ASN	B	259	26.876	31.057	30.333	1.00	10.96
7793	N	PRO	B	260	27.449	29.194	29.210	1.00	9.20
7794	CA	PRO	B	260	28.640	29.843	28.651	1.00	9.24

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7795	CB	PRO	B	260	29.208	28.776	27.693	1.00	8.89
7796	CG	PRO	B	260	27.961	27.878	27.408	1.00	9.03
7797	CD	PRO	B	260	27.232	27.878	28.609	1.00	8.30
7798	C	PRO	B	260	28.169	30.979	27.814	1.00	9.24
7799	O	PRO	B	260	27.080	30.891	27.303	1.00	3.91
7800	N	VAL	B	261	29.009	32.005	27.687	1.00	11.17
7801	CA	VAL	B	261	28.829	33.090	26.686	1.00	12.34
7802	CB	VAL	B	261	28.803	34.572	27.390	1.00	12.46
7803	CG1	VAL	B	261	28.117	34.554	28.763	1.00	11.80
7804	CG2	VAL	B	261	30.163	35.316	27.465	1.00	14.37
7805	C	VAL	B	261	29.812	32.923	25.475	1.00	10.95
7806	O	VAL	B	261	30.884	32.519	25.645	1.00	10.35
7807	N	VAL	B	262	29.304	33.095	24.259	1.00	10.17
7808	CA	VAL	B	262	30.017	33.217	23.058	1.00	10.20
7809	CB	VAL	B	262	29.286	32.643	21.905	1.00	11.34
7810	CG1	VAL	B	262	29.549	31.167	21.721	1.00	17.21
7811	CG2	VAL	B	262	27.875	32.844	22.028	1.00	11.49
7812	C	VAL	B	262	30.124	34.635	22.555	1.00	10.99
7813	O	VAL	B	262	29.186	35.476	22.633	1.00	7.98
7814	N	ARG	B	263	31.289	34.843	21.952	1.00	8.85
7815	CA	ARG	B	263	31.397	35.797	20.918	1.00	10.51
7816	CB	ARG	B	263	32.297	36.979	21.368	1.00	11.00
7817	CG	ARG	B	263	32.095	37.354	22.823	1.00	16.34
7818	CD	ARG	B	263	32.794	38.679	23.325	1.00	15.13
7819	NE	ARG	B	263	34.152	38.244	23.638	1.00	20.51
7820	CZ	ARG	B	263	35.203	39.091	23.828	1.00	23.45
7821	NH1	ARG	B	263	35.000	40.424	23.751	1.00	23.84
7822	NH2	ARG	B	263	36.456	38.620	24.087	1.00	15.21
7823	C	ARG	B	263	31.966	35.012	19.718	1.00	9.69
7824	O	ARG	B	263	32.798	34.167	19.855	1.00	8.67
7825	N	ILE	B	264	31.500	35.351	18.546	1.00	7.62
7826	CA	ILE	B	264	32.047	34.891	17.305	1.00	5.28
7827	CB	ILE	B	264	30.928	34.635	16.416	1.00	5.18
7828	CG1	ILE	B	264	29.894	33.690	17.016	1.00	2.00
7829	CD1	ILE	B	264	30.462	32.257	17.526	1.00	7.50
7830	CG2	ILE	B	264	31.419	34.117	15.201	1.00	4.96
7831	C	ILE	B	264	32.878	36.046	16.672	1.00	6.86
7832	O	ILE	B	264	32.427	37.245	16.484	1.00	6.92
7833	N	PHE	B	265	34.129	35.703	16.325	1.00	7.25
7834	CA	PHE	B	265	35.079	36.696	15.759	1.00	7.72
7835	CB	PHE	B	265	36.301	36.733	16.644	1.00	8.25
7836	CG	PHE	B	265	36.103	37.508	17.861	1.00	12.90
7837	CD1	PHE	B	265	36.026	36.886	19.090	1.00	11.50
7838	CE1	PHE	B	265	35.848	37.588	20.215	1.00	5.93
7839	CZ	PHE	B	265	35.693	38.844	20.174	1.00	8.44
7840	CE2	PHE	B	265	35.801	39.539	18.986	1.00	12.93
7841	CD2	PHE	B	265	35.968	38.902	17.820	1.00	11.71
7842	C	PHE	B	265	35.398	36.326	14.331	1.00	7.50
7843	O	PHE	B	265	35.349	35.158	13.931	1.00	8.19
7844	N	ILE	B	266	35.733	37.292	13.544	1.00	8.25
7845	CA	ILE	B	266	36.360	37.000	12.259	1.00	9.83

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7846	CB	ILE	B	266	35.386	37.228	11.080	1.00	8.30
7847	CG1	ILE	B	266	34.054	36.602	11.289	1.00	11.93
7848	CD1	ILE	B	266	33.031	37.243	10.375	1.00	2.00
7849	CG2	ILE	B	266	35.968	36.586	9.808	1.00	13.16
7850	C	ILE	B	266	37.588	37.897	12.051	1.00	8.53
7851	O	ILE	B	266	37.500	39.086	12.274	1.00	9.64
7852	N	ILE	B	267	38.686	37.319	11.576	1.00	10.69
7853	CA	ILE	B	267	39.970	38.043	11.393	1.00	13.26
7854	CB	ILE	B	267	41.169	37.589	12.215	1.00	14.46
7855	CG1	ILE	B	267	40.816	36.295	12.801	1.00	17.32
7856	CD1	ILE	B	267	41.150	35.154	11.831	1.00	19.06
7857	CG2	ILE	B	267	42.073	38.688	13.025	1.00	14.41
7858	C	ILE	B	267	40.441	37.717	9.956	1.00	13.68
7859	O	ILE	B	267	40.347	36.519	9.384	1.00	8.99
7860	N	ASP	B	268	41.042	38.775	9.449	1.00	13.14
7861	CA	ASP	B	268	41.788	38.611	8.247	1.00	15.13
7862	CB	ASP	B	268	42.099	39.957	7.739	1.00	14.52
7863	CG	ASP	B	268	42.589	39.934	6.342	1.00	15.72
7864	OD1	ASP	B	268	42.126	40.893	5.628	1.00	12.19
7865	OD2	ASP	B	268	43.496	39.059	5.965	1.00	10.29
7866	C	ASP	B	268	43.066	37.725	8.451	1.00	15.96
7867	O	ASP	B	268	43.931	38.013	9.283	1.00	17.51
7868	N	THR	B	269	43.193	36.702	7.611	1.00	16.44
7869	CA	THR	B	269	44.234	35.654	7.714	1.00	14.85
7870	CB	THR	B	269	43.608	34.536	6.934	1.00	15.08
7871	OG1	THR	B	269	43.133	33.455	7.790	1.00	18.75
7872	CG2	THR	B	269	44.382	34.011	5.894	1.00	13.77
7873	C	THR	B	269	45.516	36.147	7.087	1.00	15.92
7874	O	THR	B	269	46.568	35.513	7.246	1.00	18.97
7875	N	THR	B	270	45.465	37.265	6.388	1.00	12.63
7876	CA	THR	B	270	46.594	37.911	5.834	1.00	12.15
7877	CB	THR	B	270	46.251	38.037	4.297	1.00	13.33
7878	OG1	THR	B	270	46.522	36.724	3.691	1.00	17.17
7879	CG2	THR	B	270	47.199	39.123	3.556	1.00	10.18
7880	C	THR	B	270	47.029	39.276	6.518	1.00	10.74
7881	O	THR	B	270	48.202	39.699	6.503	1.00	8.95
7882	N	TYR	B	271	46.130	39.917	7.231	1.00	8.03
7883	CA	TYR	B	271	46.448	41.147	7.951	1.00	7.49
7884	CB	TYR	B	271	45.643	42.284	7.267	1.00	6.02
7885	CG	TYR	B	271	46.052	42.527	5.823	1.00	6.18
7886	CD1	TYR	B	271	45.399	41.934	4.798	1.00	8.05
7887	CE1	TYR	B	271	45.789	42.163	3.468	1.00	7.83
7888	CZ	TYR	B	271	46.789	42.977	3.193	1.00	8.67
7889	OH	TYR	B	271	47.191	43.185	1.867	1.00	8.52
7890	CE2	TYR	B	271	47.392	43.627	4.242	1.00	8.22
7891	CD2	TYR	B	271	47.040	43.381	5.510	1.00	2.00
7892	C	TYR	B	271	46.069	41.039	9.402	1.00	5.61
7893	O	TYR	B	271	45.350	41.943	9.902	1.00	7.12
7894	N	PRO	B	272	46.269	39.861	10.016	1.00	6.80
7895	CA	PRO	B	272	45.612	39.532	11.292	1.00	6.72
7896	CB	PRO	B	272	45.980	38.091	11.543	1.00	5.06

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7897	CG	PRO	B	272	47.199	37.831	10.772	1.00	6.25
7898	CD	PRO	B	272	46.920	38.656	9.491	1.00	5.81
7899	C	PRO	B	272	46.058	40.392	12.393	1.00	8.50
7900	O	PRO	B	272	45.202	40.867	13.182	1.00	10.73
7901	N	ALA	B	273	47.329	40.723	12.354	1.00	6.92
7902	CA	ALA	B	273	47.878	41.759	13.180	1.00	9.05
7903	CB	ALA	B	273	49.423	41.778	13.141	1.00	9.67
7904	C	ALA	B	273	47.393	43.038	12.793	1.00	9.71
7905	O	ALA	B	273	46.910	43.715	13.652	1.00	12.64
7906	N	TYR	B	274	47.504	43.381	11.517	1.00	11.45
7907	CA	TYR	B	274	47.185	44.792	10.986	1.00	10.14
7908	CB	TYR	B	274	47.231	44.889	9.445	1.00	9.54
7909	CG	TYR	B	274	47.072	46.304	8.865	1.00	5.17
7910	CD1	TYR	B	274	47.814	47.363	9.343	1.00	4.86
7911	CE1	TYR	B	274	47.649	48.644	8.826	1.00	2.79
7912	CZ	TYR	B	274	46.807	48.851	7.788	1.00	2.00
7913	OH	TYR	B	274	46.670	50.136	7.294	1.00	2.00
7914	CE2	TYR	B	274	46.085	47.825	7.316	1.00	2.00
7915	CD2	TYR	B	274	46.220	46.564	7.813	1.00	2.00
7916	C	TYR	B	274	45.854	45.286	11.400	1.00	9.35
7917	O	TYR	B	274	45.745	46.328	11.951	1.00	9.93
7918	N	VAL	B	275	44.845	44.444	11.196	1.00	11.07
7919	CA	VAL	B	275	43.451	44.779	11.310	1.00	9.66
7920	CB	VAL	B	275	42.634	44.273	10.048	1.00	11.67
7921	CG1	VAL	B	275	41.701	43.047	10.248	1.00	12.82
7922	CG2	VAL	B	275	41.562	45.322	9.707	1.00	16.81
7923	C	VAL	B	275	42.801	44.253	12.600	1.00	9.92
7924	O	VAL	B	275	41.908	44.921	13.210	1.00	9.33
7925	N	GLY	B	276	43.160	43.022	12.954	1.00	8.72
7926	CA	GLY	B	276	42.867	42.493	14.215	1.00	10.35
7927	C	GLY	B	276	41.525	41.824	14.043	1.00	11.54
7928	O	GLY	B	276	40.874	41.973	13.000	1.00	13.70
7929	N	PRO	B	277	41.140	41.060	15.070	1.00	11.56
7930	CA	PRO	B	277	39.854	40.344	15.153	1.00	11.09
7931	CB	PRO	B	277	39.969	39.656	16.464	1.00	9.83
7932	CG	PRO	B	277	40.938	40.593	17.241	1.00	13.83
7933	CD	PRO	B	277	42.000	40.840	16.250	1.00	9.72
7934	C	PRO	B	277	38.703	41.253	15.241	1.00	11.78
7935	O	PRO	B	277	38.838	42.235	15.942	1.00	12.85
7936	N	GLN	B	278	37.607	40.940	14.556	1.00	12.73
7937	CA	GLN	B	278	36.485	41.858	14.441	1.00	12.60
7938	CB	GLN	B	278	36.241	42.452	13.050	1.00	12.22
7939	CG	GLN	B	278	37.412	43.079	12.446	1.00	12.75
7940	CD	GLN	B	278	37.711	44.460	12.997	1.00	15.22
7941	OE1	GLN	B	278	36.798	45.432	13.099	1.00	13.95
7942	NE2	GLN	B	278	38.986	44.596	13.343	1.00	4.37
7943	C	GLN	B	278	35.262	41.060	14.794	1.00	13.49
7944	O	GLN	B	278	35.016	40.075	14.207	1.00	13.58
7945	N	GLU	B	279	34.497	41.566	15.755	1.00	13.12
7946	CA	GLU	B	279	33.455	40.841	16.385	1.00	14.05
7947	CB	GLU	B	279	33.172	41.429	17.797	1.00	13.06

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7948	CG	GLU	B	279	31.968	40.782	18.456	1.00	14.85
7949	CD	GLU	B	279	31.855	40.914	19.935	1.00	17.16
7950	OE1	GLU	B	279	32.540	41.721	20.513	1.00	16.37
7951	OE2	GLU	B	279	31.060	40.142	20.512	1.00	16.43
7952	C	GLU	B	279	32.253	40.949	15.467	1.00	13.13
7953	O	GLU	B	279	31.807	42.036	15.084	1.00	14.82
7954	N	VAL	B	280	31.723	39.822	15.141	1.00	12.42
7955	CA	VAL	B	280	30.532	39.801	14.353	1.00	12.73
7956	CB	VAL	B	280	30.225	38.382	13.910	1.00	14.76
7957	CG1	VAL	B	280	28.936	38.319	13.215	1.00	9.95
7958	CG2	VAL	B	280	31.408	37.766	13.087	1.00	8.35
7959	C	VAL	B	280	29.339	40.245	15.184	1.00	14.69
7960	O	VAL	B	280	29.031	39.606	16.150	1.00	15.46
7961	N	PRO	B	281	28.627	41.306	14.754	1.00	16.30
7962	CA	PRO	B	281	27.550	41.906	15.569	1.00	16.22
7963	CB	PRO	B	281	27.093	43.164	14.746	1.00	16.25
7964	CG	PRO	B	281	28.172	43.406	13.796	1.00	19.39
7965	CD	PRO	B	281	28.802	41.988	13.459	1.00	15.39
7966	C	PRO	B	281	26.367	40.920	15.744	1.00	16.25
7967	O	PRO	B	281	26.085	40.098	14.907	1.00	17.06
7968	N	VAL	B	282	25.606	41.096	16.820	1.00	16.75
7969	CA	VAL	B	282	24.647	40.120	17.150	1.00	13.21
7970	CB	VAL	B	282	24.963	39.445	18.539	1.00	16.03
7971	CG1	VAL	B	282	26.203	40.032	19.245	1.00	14.82
7972	CG2	VAL	B	282	23.793	39.397	19.424	1.00	9.26
7973	C	VAL	B	282	23.315	40.737	17.043	1.00	11.43
7974	O	VAL	B	282	23.141	41.784	17.502	1.00	12.31
7975	N	PRO	B	283	22.367	40.076	16.410	1.00	10.15
7976	CA	PRO	B	283	21.062	40.673	16.242	1.00	8.83
7977	CB	PRO	B	283	20.180	39.537	15.645	1.00	9.37
7978	CG	PRO	B	283	21.282	38.238	15.233	1.00	6.97
7979	CD	PRO	B	283	22.515	38.655	15.869	1.00	9.65
7980	C	PRO	B	283	20.530	41.128	17.616	1.00	9.84
7981	O	PRO	B	283	20.642	40.353	18.570	1.00	8.01
7982	N	ALA	B	284	19.850	42.324	17.678	1.00	12.00
7983	CA	ALA	B	284	19.325	42.897	18.923	1.00	12.26
7984	CB	ALA	B	284	18.758	44.133	18.645	1.00	13.91
7985	C	ALA	B	284	18.238	42.064	19.644	1.00	13.86
7986	O	ALA	B	284	18.226	41.995	20.867	1.00	13.82
7987	N	MET	B	285	17.289	41.534	18.898	1.00	14.88
7988	CA	MET	B	285	16.340	40.541	19.399	1.00	14.75
7989	CB	MET	B	285	15.312	40.245	18.259	1.00	15.86
7990	CG	MET	B	285	15.744	39.144	17.224	1.00	16.51
7991	SD	MET	B	285	14.287	38.815	16.190	1.00	17.65
7992	CE	MET	B	285	13.688	37.438	17.007	1.00	18.92
7993	C	MET	B	285	16.976	39.146	19.854	1.00	15.39
7994	O	MET	B	285	16.290	38.218	20.248	1.00	15.29
7995	N	ILE	B	286	18.249	38.975	19.693	1.00	13.64
7996	CA	ILE	B	286	18.938	37.831	20.222	1.00	15.67
7997	CB	ILE	B	286	19.918	37.331	19.195	1.00	14.58
7998	CG1	ILE	B	286	19.150	36.665	18.090	1.00	16.56

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
7999	CD1	ILE	B	286	18.682	35.359	18.317	1.00	14.15
8000	CG2	ILE	B	286	20.987	36.551	19.829	1.00	10.30
8001	C	ILE	B	286	19.785	38.238	21.463	1.00	17.71
8002	O	ILE	B	286	20.046	37.387	22.376	1.00	21.12
8003	N	ALA	B	287	20.308	39.468	21.447	1.00	15.84
8004	CA	ALA	B	287	21.196	39.874	22.463	1.00	14.90
8005	CB	ALA	B	287	22.068	40.957	21.981	1.00	13.90
8006	C	ALA	B	287	20.462	40.306	23.659	1.00	13.61
8007	O	ALA	B	287	21.075	40.407	24.675	1.00	13.79
8008	N	SER	B	288	19.151	40.538	23.558	1.00	15.11
8009	CA	SER	B	288	18.290	41.095	24.656	1.00	14.95
8010	CB	SER	B	288	16.887	41.454	24.085	1.00	14.98
8011	OG	SER	B	288	16.239	40.268	23.619	1.00	15.94
8012	C	SER	B	288	18.102	40.117	25.893	1.00	14.50
8013	O	SER	B	288	17.437	40.459	26.882	1.00	14.87
8014	N	SER	B	289	18.674	38.922	25.776	1.00	13.23
8015	CA	SER	B	289	18.680	37.859	26.783	1.00	13.37
8016	CB	SER	B	289	17.310	37.242	26.827	1.00	13.97
8017	OG	SER	B	289	17.157	36.657	25.566	1.00	21.49
8018	C	SER	B	289	19.739	36.731	26.443	1.00	12.02
8019	O	SER	B	289	20.542	36.885	25.593	1.00	9.35
8020	N	ASP	B	290	19.729	35.636	27.174	1.00	11.67
8021	CA	ASP	B	290	20.710	34.572	27.034	1.00	11.37
8022	CB	ASP	B	290	20.616	33.481	28.074	1.00	12.63
8023	CG	ASP	B	290	21.365	33.788	29.351	1.00	15.49
8024	OD1	ASP	B	290	21.405	32.887	30.203	1.00	14.93
8025	OD2	ASP	B	290	21.880	34.878	29.619	1.00	20.39
8026	C	ASP	B	290	20.470	33.966	25.681	1.00	9.90
8027	O	ASP	B	290	19.391	34.033	25.145	1.00	9.81
8028	N	TYR	B	291	21.571	33.632	25.056	1.00	6.10
8029	CA	TYR	B	291	21.484	33.102	23.747	1.00	7.59
8030	CB	TYR	B	291	21.450	34.205	22.698	1.00	8.68
8031	CG	TYR	B	291	22.660	35.097	22.666	1.00	6.97
8032	CD1	TYR	B	291	22.635	36.404	23.221	1.00	12.87
8033	CE1	TYR	B	291	23.838	37.297	23.126	1.00	7.61
8034	CZ	TYR	B	291	24.880	36.824	22.418	1.00	6.81
8035	OH	TYR	B	291	25.980	37.486	22.265	1.00	4.80
8036	CE2	TYR	B	291	24.817	35.579	21.763	1.00	9.19
8037	CD2	TYR	B	291	23.755	34.739	21.909	1.00	3.83
8038	C	TYR	B	291	22.565	32.078	23.451	1.00	6.27
8039	O	TYR	B	291	23.427	31.773	24.239	1.00	5.82
8040	N	TYR	B	292	22.454	31.553	22.269	1.00	8.05
8041	CA	TYR	B	292	23.406	30.655	21.759	1.00	9.66
8042	CB	TYR	B	292	22.753	29.270	21.655	1.00	9.29
8043	CG	TYR	B	292	22.360	28.687	22.957	1.00	10.61
8044	CD1	TYR	B	292	21.104	28.270	23.154	1.00	10.80
8045	CE1	TYR	B	292	20.726	27.656	24.291	1.00	12.80
8046	CZ	TYR	B	292	21.597	27.458	25.278	1.00	10.65
8047	OH	TYR	B	292	21.117	26.923	26.417	1.00	13.85
8048	CE2	TYR	B	292	22.895	27.795	25.145	1.00	14.67
8049	CD2	TYR	B	292	23.293	28.443	23.957	1.00	13.23

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8050	C	TYR	B	292	23.825	30.938	20.386	1.00	8.03
8051	O	TYR	B	292	22.992	31.304	19.597	1.00	10.63
8052	N	PHE	B	293	25.040	30.560	20.075	1.00	7.16
8053	CA	PHE	B	293	25.427	30.368	18.712	1.00	8.38
8054	CB	PHE	B	293	26.902	30.664	18.570	1.00	8.97
8055	CG	PHE	B	293	27.526	30.075	17.351	1.00	12.32
8056	CD1	PHE	B	293	28.373	28.989	17.459	1.00	16.51
8057	CE1	PHE	B	293	28.997	28.450	16.338	1.00	16.10
8058	CZ	PHE	B	293	28.898	29.120	15.138	1.00	15.61
8059	CE2	PHE	B	293	28.086	30.291	15.081	1.00	10.93
8060	CD2	PHE	B	293	27.460	30.724	16.155	1.00	10.26
8061	C	PHE	B	293	25.143	28.941	18.251	1.00	8.13
8062	O	PHE	B	293	25.373	27.978	18.933	1.00	7.87
8063	N	SER	B	294	24.691	28.846	17.051	1.00	8.79
8064	CA	SER	B	294	23.966	27.744	16.569	1.00	13.15
8065	CB	SER	B	294	22.699	28.310	15.896	1.00	13.17
8066	OG	SER	B	294	21.919	27.172	15.584	1.00	23.16
8067	C	SER	B	294	24.752	26.991	15.547	1.00	12.03
8068	O	SER	B	294	24.829	25.750	15.550	1.00	14.77
8069	N	TRP	B	295	25.264	27.767	14.610	1.00	11.72
8070	CA	TRP	B	295	26.078	27.276	13.515	1.00	12.40
8071	CB	TRP	B	295	25.362	26.284	12.580	1.00	10.68
8072	CG	TRP	B	295	26.329	25.635	11.698	1.00	10.37
8073	CD1	TRP	B	295	26.302	25.624	10.365	1.00	12.26
8074	NE1	TRP	B	295	27.323	24.864	9.873	1.00	6.88
8075	CE2	TRP	B	295	28.079	24.426	10.911	1.00	11.42
8076	CD2	TRP	B	295	27.476	24.897	12.083	1.00	12.70
8077	CE3	TRP	B	295	28.116	24.629	13.313	1.00	21.71
8078	CZ3	TRP	B	295	29.327	23.878	13.318	1.00	13.45
8079	CH2	TRP	B	295	29.844	23.425	12.146	1.00	17.14
8080	CZ2	TRP	B	295	29.249	23.724	10.921	1.00	16.85
8081	C	TRP	B	295	26.519	28.407	12.688	1.00	10.94
8082	O	TRP	B	295	25.995	29.378	12.780	1.00	12.25
8083	N	LEU	B	296	27.516	28.231	11.851	1.00	11.06
8084	CA	LEU	B	296	28.011	29.300	10.958	1.00	10.50
8085	CB	LEU	B	296	29.155	29.963	11.560	1.00	7.00
8086	CG	LEU	B	296	29.862	30.993	10.724	1.00	8.78
8087	CD1	LEU	B	296	30.560	32.021	11.597	1.00	4.58
8088	CD2	LEU	B	296	30.781	30.346	9.619	1.00	8.19
8089	C	LEU	B	296	28.347	28.814	9.590	1.00	11.21
8090	O	LEU	B	296	28.945	27.759	9.441	1.00	11.80
8091	N	THR	B	297	27.936	29.577	8.566	1.00	11.15
8092	CA	THR	B	297	28.119	29.121	7.196	1.00	11.54
8093	CB	THR	B	297	26.802	28.598	6.649	1.00	12.71
8094	OG1	THR	B	297	26.325	27.501	7.432	1.00	8.63
8095	CG2	THR	B	297	26.902	28.120	5.239	1.00	11.55
8096	C	THR	B	297	28.501	30.313	6.405	1.00	12.59
8097	O	THR	B	297	27.700	31.310	6.310	1.00	13.66
8098	N	TRP	B	298	29.662	30.180	5.810	1.00	10.33
8099	CA	TRP	B	298	30.143	31.003	4.729	1.00	13.87
8100	CB	TRP	B	298	31.629	30.715	4.436	1.00	10.62

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8101	CG	TRP	B	298	32.548	31.125	5.529	1.00	11.71
8102	CD1	TRP	B	298	33.147	30.283	6.484	1.00	10.78
8103	NE1	TRP	B	298	33.952	31.044	7.309	1.00	14.43
8104	CE2	TRP	B	298	33.906	32.363	6.906	1.00	11.59
8105	CD2	TRP	B	298	33.038	32.438	5.787	1.00	10.20
8106	CE3	TRP	B	298	32.877	33.646	5.174	1.00	12.82
8107	CZ3	TRP	B	298	33.481	34.756	5.729	1.00	13.41
8108	CH2	TRP	B	298	34.307	34.627	6.869	1.00	6.70
8109	CZ2	TRP	B	298	34.515	33.448	7.441	1.00	5.54
8110	C	TRP	B	298	29.454	30.863	3.402	1.00	14.90
8111	O	TRP	B	298	29.031	29.768	2.950	1.00	18.57
8112	N	VAL	B	299	29.338	31.979	2.765	1.00	15.25
8113	CA	VAL	B	299	28.736	32.004	1.464	1.00	16.14
8114	CB	VAL	B	299	27.644	33.085	1.459	1.00	18.20
8115	CG1	VAL	B	299	26.690	32.808	0.325	1.00	9.27
8116	CG2	VAL	B	299	26.867	33.101	2.818	1.00	14.68
8117	C	VAL	B	299	29.909	32.336	0.554	1.00	16.86
8118	O	VAL	B	299	30.598	31.433	0.107	1.00	17.64
8119	N	THR	B	300	30.258	33.630	0.425	1.00	17.46
8120	CA	THR	B	300	31.546	33.934	-0.164	1.00	16.45
8121	CB	THR	B	300	31.451	35.043	-1.115	1.00	15.84
8122	OG1	THR	B	300	31.203	36.237	-0.389	1.00	18.17
8123	CG2	THR	B	300	30.326	34.893	-1.942	1.00	10.84
8124	C	THR	B	300	32.593	34.299	0.878	1.00	17.87
8125	O	THR	B	300	32.323	34.337	2.043	1.00	18.12
8126	N	ASP	B	301	33.790	34.636	0.440	1.00	17.55
8127	CA	ASP	B	301	34.727	35.302	1.294	1.00	16.94
8128	CB	ASP	B	301	36.071	35.448	0.575	1.00	17.11
8129	CG	ASP	B	301	36.779	34.148	0.422	1.00	19.98
8130	OD1	ASP	B	301	37.180	33.914	-0.683	1.00	28.73
8131	OD2	ASP	B	301	36.992	33.301	1.294	1.00	19.32
8132	C	ASP	B	301	34.252	36.684	1.818	1.00	16.49
8133	O	ASP	B	301	34.941	37.267	2.697	1.00	18.38
8134	N	GLU	B	302	33.133	37.207	1.356	1.00	13.57
8135	CA	GLU	B	302	32.674	38.540	1.849	1.00	14.97
8136	CB	GLU	B	302	32.507	39.556	0.713	1.00	14.64
8137	CG	GLU	B	302	33.765	40.269	0.239	1.00	23.33
8138	CD	GLU	B	302	34.686	39.399	-0.637	1.00	29.48
8139	OE1	GLU	B	302	34.208	38.456	-1.427	1.00	29.59
8140	OE2	GLU	B	302	35.931	39.688	-0.524	1.00	35.27
8141	C	GLU	B	302	31.313	38.471	2.510	1.00	12.91
8142	O	GLU	B	302	30.745	39.476	2.904	1.00	12.31
8143	N	ARG	B	303	30.808	37.259	2.617	1.00	11.91
8144	CA	ARG	B	303	29.466	37.038	3.114	1.00	11.40
8145	CB	ARG	B	303	28.450	36.953	1.941	1.00	10.41
8146	CG	ARG	B	303	26.963	37.087	2.222	1.00	8.01
8147	CD	ARG	B	303	26.377	38.062	1.172	1.00	13.59
8148	NE	ARG	B	303	25.049	37.697	0.941	1.00	7.35
8149	CZ	ARG	B	303	24.036	38.551	0.938	1.00	20.49
8150	NH1	ARG	B	303	22.781	38.047	0.768	1.00	10.39
8151	NH2	ARG	B	303	24.247	39.925	1.053	1.00	17.35

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8152	C	ARG	B	303	29.544	35.789	3.894	1.00	11.55
8153	O	ARG	B	303	29.939	34.695	3.428	1.00	10.40
8154	N	VAL	B	304	29.139	35.990	5.128	1.00	11.88
8155	CA	VAL	B	304	28.984	34.933	6.124	1.00	10.95
8156	CB	VAL	B	304	30.016	35.188	7.174	1.00	9.39
8157	CG1	VAL	B	304	29.656	36.392	7.999	1.00	8.84
8158	CG2	VAL	B	304	30.291	34.003	8.013	1.00	10.00
8159	C	VAL	B	304	27.532	34.910	6.699	1.00	12.11
8160	O	VAL	B	304	26.836	35.948	6.790	1.00	12.57
8161	N	CYS	B	305	27.111	33.733	7.081	1.00	11.54
8162	CA	CYS	B	305	25.794	33.577	7.670	1.00	13.08
8163	CB	CYS	B	305	24.978	32.668	6.802	1.00	12.58
8164	SG	CYS	B	305	23.368	32.086	7.400	1.00	14.78
8165	C	CYS	B	305	25.853	32.946	9.097	1.00	13.30
8166	O	CYS	B	305	26.433	31.874	9.301	1.00	13.21
8167	N	LEU	B	306	25.215	33.633	10.051	1.00	11.01
8168	CA	LEU	B	306	25.277	33.293	11.454	1.00	9.29
8169	CB	LEU	B	306	25.782	34.472	12.310	1.00	10.20
8170	CG	LEU	B	306	27.329	34.401	12.283	1.00	11.43
8171	CD1	LEU	B	306	27.802	35.306	11.303	1.00	9.08
8172	CD2	LEU	B	306	27.909	34.672	13.500	1.00	9.61
8173	C	LEU	B	306	23.915	32.841	11.878	1.00	11.77
8174	O	LEU	B	306	22.941	33.374	11.444	1.00	8.75
8175	N	GLN	B	307	23.859	31.786	12.659	1.00	13.39
8176	CA	GLN	B	307	22.573	31.412	13.192	1.00	14.52
8177	CB	GLN	B	307	22.223	30.004	12.683	1.00	16.13
8178	CG	GLN	B	307	21.540	29.963	11.276	1.00	13.58
8179	CD	GLN	B	307	21.294	28.530	10.830	1.00	13.67
8180	OE1	GLN	B	307	22.239	27.813	10.568	1.00	12.14
8181	NE2	GLN	B	307	20.046	28.124	10.738	1.00	9.54
8182	C	GLN	B	307	22.687	31.522	14.734	1.00	14.87
8183	O	GLN	B	307	23.672	31.174	15.321	1.00	16.82
8184	N	TRP	B	308	21.734	32.142	15.346	1.00	13.33
8185	CA	TRP	B	308	21.663	32.317	16.744	1.00	12.75
8186	CB	TRP	B	308	21.699	33.799	17.067	1.00	11.78
8187	CG	TRP	B	308	22.699	34.528	16.407	1.00	11.77
8188	CD1	TRP	B	308	22.571	35.101	15.207	1.00	10.36
8189	NE1	TRP	B	308	23.705	35.769	14.868	1.00	11.98
8190	CE2	TRP	B	308	24.623	35.578	15.860	1.00	13.95
8191	CD2	TRP	B	308	23.999	34.813	16.857	1.00	9.17
8192	CE3	TRP	B	308	24.733	34.471	17.980	1.00	10.13
8193	CZ3	TRP	B	308	26.000	34.940	18.109	1.00	9.04
8194	CH2	TRP	B	308	26.622	35.708	17.118	1.00	8.83
8195	CZ2	TRP	B	308	25.955	36.050	15.977	1.00	8.16
8196	C	TRP	B	308	20.294	31.698	17.259	1.00	13.56
8197	O	TRP	B	308	19.448	31.353	16.519	1.00	14.64
8198	N	LEU	B	309	20.174	31.478	18.544	1.00	12.86
8199	CA	LEU	B	309	19.083	30.704	19.091	1.00	10.90
8200	CB	LEU	B	309	19.502	29.263	19.123	1.00	9.70
8201	CG	LEU	B	309	18.466	28.276	19.600	1.00	9.93
8202	CD1	LEU	B	309	17.294	28.511	18.825	1.00	6.81

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8203	CD2	LEU	B	309	18.964	26.814	19.445	1.00	12.27
8204	C	LEU	B	309	18.892	31.276	20.462	1.00	10.41
8205	O	LEU	B	309	19.759	31.244	21.295	1.00	12.77
8206	N	LYS	B	310	17.830	32.007	20.640	1.00	9.06
8207	CA	LYS	B	310	17.402	32.430	21.942	1.00	8.65
8208	CB	LYS	B	310	15.961	32.954	21.835	1.00	7.23
8209	CG	LYS	B	310	15.899	34.330	21.231	1.00	9.84
8210	CD	LYS	B	310	14.563	35.012	21.541	1.00	11.78
8211	CE	LYS	B	310	14.638	36.421	22.111	1.00	16.59
8212	NZ	LYS	B	310	15.648	36.665	23.114	1.00	20.80
8213	C	LYS	B	310	17.511	31.212	22.917	1.00	9.86
8214	O	LYS	B	310	17.246	30.032	22.532	1.00	10.97
8215	N	ARG	B	311	17.868	31.540	24.167	1.00	8.45
8216	CA	ARG	B	311	17.917	30.559	25.210	1.00	8.04
8217	CB	ARG	B	311	18.484	31.076	26.531	1.00	7.14
8218	CG	ARG	B	311	18.672	29.872	27.525	1.00	11.79
8219	CD	ARG	B	311	19.363	30.226	28.729	1.00	9.53
8220	NE	ARG	B	311	19.264	29.221	29.768	1.00	10.49
8221	CZ	ARG	B	311	20.130	29.190	30.768	1.00	10.67
8222	NH1	ARG	B	311	20.115	28.283	31.635	1.00	8.96
8223	NH2	ARG	B	311	21.089	30.050	30.855	1.00	10.69
8224	C	ARG	B	311	16.594	29.759	25.428	1.00	8.82
8225	O	ARG	B	311	16.697	28.553	25.734	1.00	8.90
8226	N	VAL	B	312	15.449	30.433	25.326	1.00	7.58
8227	CA	VAL	B	312	14.134	29.793	25.160	1.00	9.72
8228	CB	VAL	B	312	12.937	30.824	25.412	1.00	9.83
8229	CG1	VAL	B	312	11.546	30.248	25.205	1.00	9.46
8230	CG2	VAL	B	312	12.898	31.312	26.907	1.00	6.62
8231	C	VAL	B	312	14.175	29.418	23.725	1.00	13.12
8232	O	VAL	B	312	14.085	30.290	22.841	1.00	15.76
8233	N	GLN	B	313	14.338	28.160	23.389	1.00	13.61
8234	CA	GLN	B	313	14.837	27.948	22.077	1.00	11.90
8235	CB	GLN	B	313	15.734	26.705	22.105	1.00	12.89
8236	CG	GLN	B	313	16.898	26.638	23.149	1.00	9.30
8237	CD	GLN	B	313	17.559	25.160	23.217	1.00	11.08
8238	OE1	GLN	B	313	17.909	24.674	24.304	1.00	15.23
8239	NE2	GLN	B	313	17.661	24.486	22.085	1.00	12.95
8240	C	GLN	B	313	13.711	27.786	21.059	1.00	12.45
8241	O	GLN	B	313	13.656	26.784	20.302	1.00	12.28
8242	N	ASN	B	314	12.738	28.684	21.090	1.00	12.45
8243	CA	ASN	B	314	11.493	28.515	20.294	1.00	13.16
8244	CB	ASN	B	314	10.135	28.616	21.132	1.00	12.46
8245	CG	ASN	B	314	9.855	30.066	21.772	1.00	17.84
8246	OD1	ASN	B	314	10.777	30.910	21.773	1.00	21.70
8247	ND2	ASN	B	314	8.592	30.313	22.353	1.00	22.58
8248	C	ASN	B	314	11.618	29.489	19.143	1.00	11.57
8249	O	ASN	B	314	10.769	29.602	18.331	1.00	12.63
8250	N	VAL	B	315	12.738	30.165	19.119	1.00	8.21
8251	CA	VAL	B	315	13.055	31.255	18.205	1.00	8.66
8252	CB	VAL	B	315	12.966	32.563	18.864	1.00	8.40
8253	CG1	VAL	B	315	13.394	33.651	17.848	1.00	6.98

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8254	CG2	VAL	B	315	11.503	32.842	19.288	1.00	6.37
8255	C	VAL	B	315	14.469	31.185	17.688	1.00	9.29
8256	O	VAL	B	315	15.377	31.241	18.450	1.00	9.68
8257	N	SER	B	316	14.670	31.036	16.388	1.00	11.82
8258	CA	SER	B	316	16.074	31.066	15.806	1.00	11.71
8259	CB	SER	B	316	16.351	29.859	14.945	1.00	11.98
8260	OG	SER	B	316	17.712	29.979	14.500	1.00	21.26
8261	C	SER	B	316	16.256	32.191	14.887	1.00	10.74
8262	O	SER	B	316	15.317	32.482	14.263	1.00	9.19
8263	N	VAL	B	317	17.443	32.768	14.750	1.00	10.48
8264	CA	VAL	B	317	17.612	33.887	13.785	1.00	12.61
8265	CB	VAL	B	317	17.931	35.172	14.446	1.00	12.44
8266	CG1	VAL	B	317	18.187	36.280	13.411	1.00	14.06
8267	CG2	VAL	B	317	16.827	35.462	15.223	1.00	13.87
8268	C	VAL	B	317	18.760	33.617	12.927	1.00	13.01
8269	O	VAL	B	317	19.737	33.239	13.441	1.00	15.05
8270	N	LEU	B	318	18.657	33.841	11.612	1.00	14.15
8271	CA	LEU	B	318	19.758	33.611	10.725	1.00	13.76
8272	CB	LEU	B	318	19.336	32.653	9.617	1.00	14.93
8273	CG	LEU	B	318	20.173	32.606	8.335	1.00	12.37
8274	CD1	LEU	B	318	19.793	31.312	7.680	1.00	5.55
8275	CD2	LEU	B	318	19.944	33.776	7.367	1.00	7.65
8276	C	LEU	B	318	20.104	35.007	10.220	1.00	14.48
8277	O	LEU	B	318	19.249	35.741	9.709	1.00	14.51
8278	N	SER	B	319	21.354	35.373	10.435	1.00	14.01
8279	CA	SER	B	319	21.876	36.674	10.099	1.00	13.53
8280	CB	SER	B	319	22.669	37.269	11.276	1.00	12.75
8281	OG	SER	B	319	22.355	38.740	11.458	1.00	14.53
8282	C	SER	B	319	22.778	36.431	8.898	1.00	13.11
8283	O	SER	B	319	23.708	35.487	8.891	1.00	17.13
8284	N	ILE	B	320	22.583	37.187	7.864	1.00	9.26
8285	CA	ILE	B	320	23.618	37.205	6.867	1.00	9.99
8286	CB	ILE	B	320	23.037	36.981	5.466	1.00	9.52
8287	CG1	ILE	B	320	22.453	35.536	5.296	1.00	10.16
8288	CD1	ILE	B	320	21.457	35.572	4.250	1.00	11.42
8289	CG2	ILE	B	320	24.083	37.128	4.407	1.00	9.00
8290	C	ILE	B	320	24.325	38.560	6.998	1.00	9.76
8291	O	ILE	B	320	23.651	39.621	7.011	1.00	4.13
8292	N	CYS	B	321	25.677	38.512	6.907	1.00	7.12
8293	CA	CYS	B	321	26.547	39.624	7.187	1.00	9.19
8294	CB	CYS	B	321	27.375	39.207	8.428	1.00	12.57
8295	SG	CYS	B	321	26.577	39.099	10.011	1.00	15.27
8296	C	CYS	B	321	27.582	39.847	6.045	1.00	10.65
8297	O	CYS	B	321	28.253	38.921	5.612	1.00	6.61
8298	N	ASP	B	322	27.749	41.105	5.607	1.00	11.82
8299	CA	ASP	B	322	28.623	41.447	4.448	1.00	11.80
8300	CB	ASP	B	322	27.836	42.249	3.445	1.00	11.70
8301	CG	ASP	B	322	26.712	41.412	2.926	1.00	16.81
8302	OD1	ASP	B	322	27.074	40.330	2.378	1.00	16.93
8303	OD2	ASP	B	322	25.458	41.687	3.079	1.00	23.37
8304	C	ASP	B	322	29.850	42.125	4.881	1.00	10.54

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8305	O	ASP	B	322	29.880	42.530	5.975	1.00	10.05
8306	N	PHE	B	323	30.884	42.170	4.063	1.00	11.51
8307	CA	PHE	B	323	32.194	42.700	4.493	1.00	10.62
8308	CB	PHE	B	323	33.394	41.784	3.994	1.00	11.30
8309	CG	PHE	B	323	34.774	42.247	4.504	1.00	8.32
8310	CD1	PHE	B	323	35.616	42.963	3.698	1.00	10.95
8311	CE1	PHE	B	323	36.839	43.463	4.183	1.00	4.02
8312	CZ	PHE	B	323	37.182	43.309	5.551	1.00	3.59
8313	CE2	PHE	B	323	36.341	42.634	6.408	1.00	7.32
8314	CD2	PHE	B	323	35.125	42.078	5.855	1.00	12.78
8315	C	PHE	B	323	32.233	44.162	4.031	1.00	12.84
8316	O	PHE	B	323	31.601	44.555	3.054	1.00	13.73
8317	N	ARG	B	324	32.927	45.013	4.751	1.00	14.35
8318	CA	ARG	B	324	32.876	46.468	4.540	1.00	14.28
8319	CB	ARG	B	324	32.297	47.046	5.786	1.00	14.30
8320	CG	ARG	B	324	31.138	48.114	5.780	1.00	16.02
8321	CD	ARG	B	324	31.169	48.712	7.148	1.00	14.53
8322	NE	ARG	B	324	30.046	49.396	7.734	1.00	25.20
8323	CZ	ARG	B	324	29.939	50.718	7.829	1.00	30.47
8324	NH1	ARG	B	324	28.945	51.210	8.521	1.00	33.21
8325	NH2	ARG	B	324	30.755	51.556	7.212	1.00	25.51
8326	C	ARG	B	324	34.372	46.889	4.417	1.00	16.02
8327	O	ARG	B	324	35.201	46.765	5.351	1.00	16.10
8328	N	GLU	B	325	34.742	47.299	3.235	1.00	16.83
8329	CA	GLU	B	325	36.111	47.642	2.972	1.00	17.05
8330	CB	GLU	B	325	36.277	47.843	1.466	1.00	18.65
8331	CG	GLU	B	325	36.121	46.487	0.752	1.00	25.05
8332	CD	GLU	B	325	36.426	46.529	-0.742	1.00	32.24
8333	OE1	GLU	B	325	36.916	45.451	-1.198	1.00	34.47
8334	OE2	GLU	B	325	36.208	47.601	-1.441	1.00	30.65
8335	C	GLU	B	325	36.614	48.836	3.770	1.00	15.56
8336	O	GLU	B	325	37.784	48.805	4.233	1.00	16.28
8337	N	ASP	B	326	35.730	49.784	4.019	1.00	13.21
8338	CA	ASP	B	326	36.086	51.092	4.484	1.00	13.98
8339	CB	ASP	B	326	34.951	52.149	4.343	1.00	15.14
8340	CG	ASP	B	326	33.556	51.543	4.345	1.00	18.47
8341	OD1	ASP	B	326	33.179	51.035	5.399	1.00	22.81
8342	OD2	ASP	B	326	32.762	51.485	3.341	1.00	29.89
8343	C	ASP	B	326	36.451	51.049	5.884	1.00	14.03
8344	O	ASP	B	326	37.338	51.772	6.306	1.00	13.90
8345	N	TRP	B	327	35.785	50.166	6.596	1.00	14.71
8346	CA	TRP	B	327	36.009	49.954	8.037	1.00	16.69
8347	CB	TRP	B	327	34.678	50.099	8.861	1.00	17.05
8348	CG	TRP	B	327	34.169	51.563	9.069	1.00	23.40
8349	CD1	TRP	B	327	33.131	52.144	8.410	1.00	24.24
8350	NE1	TRP	B	327	32.945	53.434	8.812	1.00	24.93
8351	CE2	TRP	B	327	33.842	53.739	9.807	1.00	30.63
8352	CD2	TRP	B	327	34.659	52.555	10.002	1.00	31.24
8353	CE3	TRP	B	327	35.722	52.591	10.980	1.00	33.95
8354	CZ3	TRP	B	327	35.940	53.841	11.750	1.00	36.64
8355	CH2	TRP	B	327	35.076	55.044	11.526	1.00	35.73

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8356	CZ2	TRP	B	327	34.044	55.007	10.573	1.00	34.04
8357	C	TRP	B	327	36.628	48.586	8.341	1.00	15.47
8358	O	TRP	B	327	37.150	48.367	9.429	1.00	16.62
8359	N	GLN	B	328	36.604	47.652	7.431	1.00	13.77
8360	CA	GLN	B	328	37.182	46.419	7.758	1.00	12.45
8361	CB	GLN	B	328	38.320	45.963	7.024	1.00	13.44
8362	CG	GLN	B	328	39.320	46.837	6.473	1.00	12.30
8363	CD	GLN	B	328	39.697	46.112	5.207	1.00	7.44
8364	OE1	GLN	B	328	40.091	44.959	5.255	1.00	7.72
8365	NE2	GLN	B	328	39.412	46.676	4.140	1.00	11.47
8366	C	GLN	B	328	36.698	45.336	8.579	1.00	14.39
8367	O	GLN	B	328	37.507	44.546	9.122	1.00	15.90
8368	N	THR	B	329	35.399	45.156	8.451	1.00	14.82
8369	CA	THR	B	329	34.563	44.789	9.551	1.00	15.63
8370	CB	THR	B	329	34.303	46.130	10.221	1.00	16.48
8371	OG1	THR	B	329	34.675	46.061	11.590	1.00	16.55
8372	CG2	THR	B	329	32.907	46.543	10.108	1.00	14.23
8373	C	THR	B	329	33.268	44.140	9.009	1.00	14.73
8374	O	THR	B	329	33.029	44.154	7.803	1.00	15.19
8375	N	TRP	B	330	32.459	43.548	9.847	1.00	13.44
8376	CA	TRP	B	330	31.248	42.917	9.296	1.00	11.49
8377	CB	TRP	B	330	31.133	41.434	9.730	1.00	12.20
8378	CG	TRP	B	330	32.278	40.679	9.210	1.00	8.57
8379	CD1	TRP	B	330	33.512	40.787	9.659	1.00	5.97
8380	NE1	TRP	B	330	34.366	40.062	8.870	1.00	14.07
8381	CE2	TRP	B	330	33.686	39.549	7.821	1.00	11.37
8382	CD2	TRP	B	330	32.357	39.970	7.971	1.00	11.00
8383	CE3	TRP	B	330	31.438	39.582	7.022	1.00	4.21
8384	CZ3	TRP	B	330	31.839	38.823	5.980	1.00	12.37
8385	CH2	TRP	B	330	33.223	38.413	5.851	1.00	9.12
8386	CZ2	TRP	B	330	34.117	38.765	6.793	1.00	10.83
8387	C	TRP	B	330	30.038	43.729	9.583	1.00	12.65
8388	O	TRP	B	330	29.931	44.464	10.618	1.00	13.04
8389	N	ASP	B	331	29.113	43.663	8.623	1.00	14.17
8390	CA	ASP	B	331	27.870	44.425	8.705	1.00	16.12
8391	CB	ASP	B	331	27.837	45.538	7.664	1.00	15.43
8392	CG	ASP	B	331	26.510	46.248	7.624	1.00	19.12
8393	OD1	ASP	B	331	26.297	47.032	8.564	1.00	17.03
8394	OD2	ASP	B	331	25.639	46.054	6.713	1.00	16.02
8395	C	ASP	B	331	26.681	43.508	8.458	1.00	16.90
8396	O	ASP	B	331	26.708	42.774	7.419	1.00	17.61
8397	N	CYS	B	332	25.680	43.581	9.366	1.00	14.56
8398	CA	CYS	B	332	24.553	42.657	9.370	1.00	16.74
8399	CB	CYS	B	332	24.569	41.692	10.534	1.00	15.82
8400	SG	CYS	B	332	26.175	41.000	10.920	1.00	21.52
8401	C	CYS	B	332	23.234	43.393	9.422	1.00	16.97
8402	O	CYS	B	332	22.655	43.626	10.450	1.00	18.00
8403	N	PRO	B	333	22.704	43.728	8.303	1.00	14.87
8404	CA	PRO	B	333	21.524	44.535	8.386	1.00	15.55
8405	CB	PRO	B	333	21.519	45.282	7.040	1.00	16.14
8406	CG	PRO	B	333	22.618	44.468	6.094	1.00	14.13

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8407	CD	PRO	B	333	23.079	43.319	6.941	1.00	13.68
8408	C	PRO	B	333	20.251	43.649	8.703	1.00	16.61
8409	O	PRO	B	333	20.130	42.443	8.342	1.00	14.30
8410	N	LYS	B	334	19.339	44.320	9.422	1.00	16.92
8411	CA	LYS	B	334	18.052	43.750	9.763	1.00	19.18
8412	CB	LYS	B	334	17.108	44.847	10.235	1.00	19.07
8413	CG	LYS	B	334	17.004	44.964	11.780	1.00	24.70
8414	CD	LYS	B	334	17.835	46.167	12.342	1.00	30.71
8415	CE	LYS	B	334	17.128	47.588	12.324	1.00	28.09
8416	NZ	LYS	B	334	18.213	48.675	12.556	1.00	22.83
8417	C	LYS	B	334	17.413	43.005	8.608	1.00	18.33
8418	O	LYS	B	334	16.858	41.891	8.749	1.00	18.76
8419	N	THR	B	335	17.502	43.602	7.454	1.00	17.39
8420	CA	THR	B	335	16.790	43.128	6.289	1.00	17.15
8421	CB	THR	B	335	17.008	44.281	5.266	1.00	17.06
8422	OG1	THR	B	335	16.022	44.254	4.237	1.00	21.55
8423	CG2	THR	B	335	18.355	44.208	4.557	1.00	19.96
8424	C	THR	B	335	17.310	41.769	5.810	1.00	16.06
8425	O	THR	B	335	16.767	41.153	4.920	1.00	16.83
8426	N	GLN	B	336	18.439	41.361	6.393	1.00	14.36
8427	CA	GLN	B	336	19.145	40.069	6.206	1.00	13.43
8428	CB	GLN	B	336	20.560	40.273	5.684	1.00	11.59
8429	CG	GLN	B	336	20.597	40.596	4.204	1.00	12.74
8430	CD	GLN	B	336	21.981	41.074	3.695	1.00	15.82
8431	OE1	GLN	B	336	22.074	41.401	2.530	1.00	22.77
8432	NE2	GLN	B	336	23.072	40.975	4.531	1.00	19.15
8433	C	GLN	B	336	19.226	39.257	7.506	1.00	13.33
8434	O	GLN	B	336	20.003	38.293	7.600	1.00	12.98
8435	N	GLU	B	337	18.344	39.621	8.436	1.00	12.47
8436	CA	GLU	B	337	17.937	38.787	9.561	1.00	12.67
8437	CB	GLU	B	337	17.646	39.657	10.772	1.00	12.88
8438	CG	GLU	B	337	18.779	39.824	11.733	1.00	16.76
8439	CD	GLU	B	337	18.489	40.858	12.811	1.00	16.91
8440	OE1	GLU	B	337	17.425	40.856	13.437	1.00	22.21
8441	OE2	GLU	B	337	19.361	41.675	13.068	1.00	19.32
8442	C	GLU	B	337	16.682	38.035	9.259	1.00	12.08
8443	O	GLU	B	337	15.652	38.570	8.909	1.00	12.02
8444	N	HIS	B	338	16.694	36.775	9.569	1.00	10.15
8445	CA	HIS	B	338	15.642	35.844	9.140	1.00	8.30
8446	CB	HIS	B	338	16.201	34.921	8.063	1.00	8.08
8447	CG	HIS	B	338	16.337	35.503	6.696	1.00	11.20
8448	ND1	HIS	B	338	16.767	34.725	5.625	1.00	11.40
8449	CE1	HIS	B	338	16.698	35.452	4.517	1.00	11.07
8450	NE2	HIS	B	338	16.307	36.687	4.835	1.00	10.40
8451	CD2	HIS	B	338	16.077	36.745	6.194	1.00	14.97
8452	C	HIS	B	338	15.273	34.927	10.336	1.00	8.65
8453	O	HIS	B	338	15.935	33.880	10.666	1.00	9.39
8454	N	ILE	B	339	14.179	35.315	10.948	1.00	7.96
8455	CA	ILE	B	339	13.566	34.684	12.087	1.00	10.25
8456	CB	ILE	B	339	12.462	35.673	12.620	1.00	10.08
8457	CG1	ILE	B	339	13.046	37.037	13.030	1.00	10.17

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8458	CD1	ILE	B	339	11.938	38.192	13.251	1.00	12.56
8459	CG2	ILE	B	339	11.726	35.081	13.780	1.00	3.11
8460	C	ILE	B	339	12.858	33.390	11.687	1.00	12.23
8461	O	ILE	B	339	12.035	33.437	10.840	1.00	13.04
8462	N	GLU	B	340	13.194	32.271	12.303	1.00	11.20
8463	CA	GLU	B	340	12.339	31.021	12.355	1.00	13.19
8464	CB	GLU	B	340	13.212	29.794	12.064	1.00	13.28
8465	CG	GLU	B	340	12.529	28.605	11.490	1.00	13.99
8466	CD	GLU	B	340	13.562	27.498	11.161	1.00	22.44
8467	OE1	GLU	B	340	14.347	27.778	10.188	1.00	14.96
8468	OE2	GLU	B	340	13.571	26.379	11.850	1.00	14.57
8469	C	GLU	B	340	11.764	30.747	13.748	1.00	14.06
8470	O	GLU	B	340	12.524	30.518	14.646	1.00	15.03
8471	N	GLU	B	341	10.479	30.618	13.921	1.00	11.60
8472	CA	GLU	B	341	9.871	30.621	15.248	1.00	14.91
8473	CB	GLU	B	341	8.671	31.633	15.163	1.00	14.76
8474	CG	GLU	B	341	8.500	32.655	16.241	1.00	17.29
8475	CD	GLU	B	341	7.762	33.899	15.768	1.00	26.82
8476	OE1	GLU	B	341	6.606	33.781	15.321	1.00	24.96
8477	OE2	GLU	B	341	8.369	34.998	15.860	1.00	34.89
8478	C	GLU	B	341	9.260	29.215	15.414	1.00	15.60
8479	O	GLU	B	341	8.972	28.595	14.390	1.00	16.14
8480	N	SER	B	342	8.954	28.756	16.631	1.00	15.35
8481	CA	SER	B	342	7.964	27.668	16.801	1.00	17.42
8482	CB	SER	B	342	8.560	26.335	17.278	1.00	17.56
8483	OG	SER	B	342	7.520	25.305	17.379	1.00	15.60
8484	C	SER	B	342	6.912	28.036	17.775	1.00	18.16
8485	O	SER	B	342	7.237	28.390	18.892	1.00	20.06
8486	N	ARG	B	343	5.652	27.884	17.377	1.00	18.35
8487	CA	ARG	B	343	4.508	28.374	18.192	1.00	19.82
8488	CB	ARG	B	343	3.215	28.673	17.354	1.00	20.26
8489	CG	ARG	B	343	3.034	30.286	16.941	1.00	26.06
8490	CD	ARG	B	343	3.131	30.547	15.358	1.00	32.25
8491	NE	ARG	B	343	4.508	30.322	14.758	1.00	40.80
8492	CZ	ARG	B	343	5.023	29.129	14.231	1.00	38.15
8493	NH1	ARG	B	343	4.312	27.978	14.184	1.00	37.08
8494	NH2	ARG	B	343	6.271	29.101	13.748	1.00	37.56
8495	C	ARG	B	343	4.175	27.471	19.314	1.00	18.61
8496	O	ARG	B	343	3.749	27.938	20.358	1.00	19.91
8497	N	THR	B	344	4.510	26.199	19.119	1.00	18.58
8498	CA	THR	B	344	4.001	25.048	19.886	1.00	17.81
8499	CB	THR	B	344	3.110	24.271	18.906	1.00	17.67
8500	OG1	THR	B	344	3.845	24.113	17.655	1.00	19.28
8501	CG2	THR	B	344	1.894	25.104	18.534	1.00	16.64
8502	C	THR	B	344	5.109	24.060	20.323	1.00	17.68
8503	O	THR	B	344	4.795	23.016	20.918	1.00	20.03
8504	N	GLY	B	345	6.352	24.317	19.990	1.00	13.34
8505	CA	GLY	B	345	7.455	23.450	20.345	1.00	12.92
8506	C	GLY	B	345	8.822	24.205	20.231	1.00	12.89
8507	O	GLY	B	345	9.002	25.348	20.703	1.00	13.32
8508	N	TRP	B	346	9.802	23.568	19.640	1.00	11.27

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8509	CA	TRP	B	346	11.145	24.156	19.578	1.00	11.14
8510	CB	TRP	B	346	12.197	23.300	20.222	1.00	8.96
8511	CG	TRP	B	346	12.167	21.885	19.849	1.00	10.76
8512	CD1	TRP	B	346	13.036	21.236	18.966	1.00	10.33
8513	NE1	TRP	B	346	12.781	19.887	18.947	1.00	11.19
8514	CE2	TRP	B	346	11.761	19.624	19.815	1.00	6.33
8515	CD2	TRP	B	346	11.359	20.868	20.403	1.00	3.76
8516	CE3	TRP	B	346	10.397	20.851	21.382	1.00	2.00
8517	CZ3	TRP	B	346	9.802	19.584	21.719	1.00	2.94
8518	CH2	TRP	B	346	10.182	18.374	21.076	1.00	5.99
8519	CZ2	TRP	B	346	11.165	18.365	20.141	1.00	3.90
8520	C	TRP	B	346	11.520	24.374	18.184	1.00	11.30
8521	O	TRP	B	346	11.105	23.647	17.316	1.00	11.39
8522	N	ALA	B	347	12.362	25.401	17.995	1.00	12.57
8523	CA	ALA	B	347	12.858	25.760	16.700	1.00	11.11
8524	CB	ALA	B	347	13.500	27.045	16.748	1.00	10.62
8525	C	ALA	B	347	13.824	24.698	16.257	1.00	13.66
8526	O	ALA	B	347	14.812	24.448	16.939	1.00	11.85
8527	N	GLY	B	348	13.489	24.051	15.131	1.00	14.66
8528	CA	GLY	B	348	14.305	23.010	14.534	1.00	13.17
8529	C	GLY	B	348	13.810	21.613	14.722	1.00	13.74
8530	O	GLY	B	348	12.650	21.338	15.047	1.00	13.26
8531	N	GLY	B	349	14.739	20.711	14.499	1.00	14.73
8532	CA	GLY	B	349	14.545	19.289	14.816	1.00	15.44
8533	C	GLY	B	349	15.231	19.096	16.133	1.00	15.27
8534	O	GLY	B	349	14.854	19.691	17.175	1.00	16.53
8535	N	PHE	B	350	16.275	18.290	16.085	1.00	15.27
8536	CA	PHE	B	350	17.118	18.148	17.219	1.00	16.97
8537	CB	PHE	B	350	18.020	16.911	17.026	1.00	16.98
8538	CG	PHE	B	350	18.603	16.483	18.256	1.00	22.11
8539	CD1	PHE	B	350	19.723	17.136	18.751	1.00	25.86
8540	CE1	PHE	B	350	20.268	16.793	20.021	1.00	28.95
8541	CZ	PHE	B	350	19.657	15.878	20.744	1.00	23.83
8542	CE2	PHE	B	350	18.445	15.240	20.259	1.00	29.41
8543	CD2	PHE	B	350	17.985	15.520	19.041	1.00	26.20
8544	C	PHE	B	350	17.929	19.459	17.268	1.00	16.86
8545	O	PHE	B	350	18.119	20.062	18.315	1.00	17.50
8546	N	PHE	B	351	18.447	19.830	16.104	1.00	16.46
8547	CA	PHE	B	351	19.165	21.040	15.891	1.00	16.37
8548	CB	PHE	B	351	20.488	20.803	15.253	1.00	16.37
8549	CG	PHE	B	351	21.340	19.745	15.895	1.00	18.68
8550	CD1	PHE	B	351	22.037	20.029	17.063	1.00	19.21
8551	CE1	PHE	B	351	22.839	19.120	17.628	1.00	18.14
8552	CZ	PHE	B	351	23.026	17.880	16.993	1.00	21.21
8553	CE2	PHE	B	351	22.355	17.583	15.801	1.00	24.61
8554	CD2	PHE	B	351	21.524	18.493	15.261	1.00	22.06
8555	C	PHE	B	351	18.381	21.911	14.933	1.00	16.37
8556	O	PHE	B	351	17.381	21.534	14.338	1.00	16.22
8557	N	VAL	B	352	18.841	23.136	14.804	1.00	16.02
8558	CA	VAL	B	352	18.167	24.070	13.966	1.00	14.66
8559	CB	VAL	B	352	18.545	25.494	14.378	1.00	16.81

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8560	CG1	VAL	B	352	18.403	26.442	13.285	1.00	11.27
8561	CG2	VAL	B	352	17.780	25.952	15.663	1.00	11.66
8562	C	VAL	B	352	18.777	23.661	12.646	1.00	14.33
8563	O	VAL	B	352	19.845	23.095	12.608	1.00	13.08
8564	N	SER	B	353	17.998	23.814	11.605	1.00	10.43
8565	CA	SER	B	353	18.350	23.594	10.231	1.00	11.24
8566	CB	SER	B	353	17.238	24.138	9.418	1.00	10.47
8567	OG	SER	B	353	16.816	23.115	8.669	1.00	18.46
8568	C	SER	B	353	19.493	24.470	9.835	1.00	11.14
8569	O	SER	B	353	19.583	25.530	10.330	1.00	12.20
8570	N	THR	B	354	20.299	24.091	8.877	1.00	12.34
8571	CA	THR	B	354	21.406	24.937	8.436	1.00	14.50
8572	CB	THR	B	354	22.730	24.220	8.560	1.00	15.10
8573	OG1	THR	B	354	23.368	24.521	7.356	1.00	23.93
8574	CG2	THR	B	354	22.755	22.645	8.257	1.00	15.45
8575	C	THR	B	354	21.104	25.290	6.998	1.00	14.10
8576	O	THR	B	354	20.475	24.539	6.319	1.00	16.14
8577	N	PRO	B	355	21.376	26.501	6.564	1.00	16.38
8578	CA	PRO	B	355	21.004	26.947	5.233	1.00	15.27
8579	CB	PRO	B	355	21.248	28.460	5.320	1.00	14.78
8580	CG	PRO	B	355	22.221	28.597	6.270	1.00	15.29
8581	CD	PRO	B	355	21.934	27.618	7.328	1.00	16.20
8582	C	PRO	B	355	21.918	26.382	4.174	1.00	15.07
8583	O	PRO	B	355	22.975	26.167	4.565	1.00	12.14
8584	N	VAL	B	356	21.520	26.126	2.921	1.00	12.68
8585	CA	VAL	B	356	22.475	25.769	1.949	1.00	11.80
8586	CB	VAL	B	356	22.747	24.265	1.807	1.00	11.76
8587	CG1	VAL	B	356	21.977	23.428	2.765	1.00	7.83
8588	CG2	VAL	B	356	22.723	23.873	0.431	1.00	4.32
8589	C	VAL	B	356	22.219	26.560	0.698	1.00	12.84
8590	O	VAL	B	356	21.103	26.629	0.256	1.00	13.54
8591	N	PHE	B	357	23.253	27.288	0.261	1.00	13.07
8592	CA	PHE	B	357	23.122	28.533	-0.561	1.00	15.35
8593	CB	PHE	B	357	24.257	29.544	-0.244	1.00	13.90
8594	CG	PHE	B	357	24.086	30.162	1.030	1.00	14.30
8595	CD1	PHE	B	357	24.318	29.411	2.159	1.00	13.99
8596	CE1	PHE	B	357	24.116	29.920	3.432	1.00	8.75
8597	CZ	PHE	B	357	23.631	31.266	3.585	1.00	7.09
8598	CE2	PHE	B	357	23.289	32.018	2.403	1.00	10.98
8599	CD2	PHE	B	357	23.561	31.468	1.134	1.00	9.64
8600	C	PHE	B	357	23.187	28.157	-2.025	1.00	15.19
8601	O	PHE	B	357	23.662	27.116	-2.325	1.00	17.02
8602	N	SER	B	358	22.659	28.954	-2.906	1.00	16.65
8603	CA	SER	B	358	22.720	28.603	-4.336	1.00	19.45
8604	CB	SER	B	358	21.761	29.540	-5.111	1.00	21.12
8605	OG	SER	B	358	21.723	30.834	-4.517	1.00	20.98
8606	C	SER	B	358	24.082	29.008	-4.785	1.00	20.40
8607	O	SER	B	358	24.621	29.869	-4.083	1.00	21.11
8608	N	TYR	B	359	24.591	28.525	-5.949	1.00	21.16
8609	CA	TYR	B	359	25.797	29.104	-6.603	1.00	21.38
8610	CB	TYR	B	359	26.415	28.188	-7.791	1.00	24.13

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8611	CG	TYR	B	359	27.069	26.720	-7.351	1.00	32.46
8612	CD1	TYR	B	359	27.402	25.689	-8.305	1.00	39.32
8613	CE1	TYR	B	359	27.994	24.220	-7.818	1.00	38.69
8614	CZ	TYR	B	359	28.246	23.921	-6.414	1.00	35.23
8615	OH	TYR	B	359	28.730	22.652	-5.937	1.00	20.16
8616	CE2	TYR	B	359	27.930	25.007	-5.461	1.00	38.41
8617	CD2	TYR	B	359	27.353	26.355	-5.918	1.00	39.77
8618	C	TYR	B	359	25.460	30.652	-6.843	1.00	20.41
8619	O	TYR	B	359	26.236	31.569	-6.611	1.00	17.02
8620	N	ASP	B	360	24.246	31.064	-7.041	1.00	21.24
8621	CA	ASP	B	360	24.199	32.571	-7.164	1.00	23.42
8622	CB	ASP	B	360	22.793	33.109	-7.570	1.00	22.12
8623	CG	ASP	B	360	21.898	33.498	-6.306	1.00	24.36
8624	OD1	ASP	B	360	22.485	33.788	-5.243	1.00	18.99
8625	OD2	ASP	B	360	20.607	33.517	-6.252	1.00	28.94
8626	C	ASP	B	360	24.837	33.311	-5.889	1.00	22.90
8627	O	ASP	B	360	25.376	34.427	-5.955	1.00	23.24
8628	N	ALA	B	361	24.689	32.665	-4.743	1.00	23.42
8629	CA	ALA	B	361	25.149	33.093	-3.420	1.00	22.69
8630	CB	ALA	B	361	26.639	33.320	-3.443	1.00	21.56
8631	C	ALA	B	361	24.441	34.241	-2.759	1.00	22.92
8632	O	ALA	B	361	25.048	34.953	-1.977	1.00	23.41
8633	N	ILE	B	362	23.125	34.400	-3.023	1.00	24.55
8634	CA	ILE	B	362	22.202	35.258	-2.148	1.00	22.87
8635	CB	ILE	B	362	21.399	36.383	-2.857	1.00	23.67
8636	CG1	ILE	B	362	22.071	36.832	-4.174	1.00	25.01
8637	CD1	ILE	B	362	21.182	36.624	-5.445	1.00	25.93
8638	CG2	ILE	B	362	21.142	37.643	-1.790	1.00	21.60
8639	C	ILE	B	362	21.140	34.434	-1.512	1.00	21.37
8640	O	ILE	B	362	20.800	34.561	-0.188	1.00	20.70
8641	N	SER	B	363	20.594	33.632	-2.435	1.00	15.11
8642	CA	SER	B	363	19.530	32.665	-2.053	1.00	13.24
8643	CB	SER	B	363	18.823	32.196	-3.326	1.00	12.80
8644	OG	SER	B	363	18.745	33.278	-4.284	1.00	15.21
8645	C	SER	B	363	20.044	31.490	-1.339	1.00	9.86
8646	O	SER	B	363	21.132	31.176	-1.539	1.00	10.29
8647	N	TYR	B	364	19.276	30.887	-0.462	1.00	7.08
8648	CA	TYR	B	364	19.532	29.505	0.040	1.00	7.83
8649	CB	TYR	B	364	20.103	29.471	1.488	1.00	7.26
8650	CG	TYR	B	364	19.257	30.236	2.551	1.00	8.56
8651	CD1	TYR	B	364	18.427	29.596	3.479	1.00	8.67
8652	CE1	TYR	B	364	17.717	30.330	4.470	1.00	6.46
8653	CZ	TYR	B	364	17.790	31.671	4.457	1.00	5.33
8654	OH	TYR	B	364	17.020	32.509	5.291	1.00	9.43
8655	CE2	TYR	B	364	18.536	32.285	3.509	1.00	4.47
8656	CD2	TYR	B	364	19.232	31.597	2.577	1.00	3.89
8657	C	TYR	B	364	18.254	28.693	0.131	1.00	6.36
8658	O	TYR	B	364	17.205	29.230	0.082	1.00	7.07
8659	N	TYR	B	365	18.425	27.430	0.419	1.00	7.10
8660	CA	TYR	B	365	17.390	26.468	0.700	1.00	9.44
8661	CB	TYR	B	365	17.612	25.238	-0.219	1.00	8.40

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8662	CG	TYR	B	365	17.545	25.697	-1.625	1.00	9.53
8663	CD1	TYR	B	365	18.666	26.292	-2.212	1.00	9.42
8664	CE1	TYR	B	365	18.647	26.773	-3.432	1.00	6.95
8665	CZ	TYR	B	365	17.501	26.747	-4.197	1.00	9.89
8666	OH	TYR	B	365	17.620	27.286	-5.450	1.00	18.44
8667	CE2	TYR	B	365	16.324	26.184	-3.705	1.00	10.06
8668	CD2	TYR	B	365	16.355	25.650	-2.363	1.00	10.36
8669	C	TYR	B	365	17.536	26.056	2.155	1.00	10.11
8670	O	TYR	B	365	18.627	26.191	2.774	1.00	12.82
8671	N	LYS	B	366	16.490	25.505	2.736	1.00	10.38
8672	CA	LYS	B	366	16.485	25.134	4.138	1.00	10.19
8673	CB	LYS	B	366	16.478	26.404	4.937	1.00	8.67
8674	CG	LYS	B	366	16.964	26.296	6.379	1.00	12.59
8675	CD	LYS	B	366	16.650	27.696	7.134	1.00	7.52
8676	CE	LYS	B	366	17.213	27.845	8.520	1.00	12.43
8677	NZ	LYS	B	366	16.717	26.905	9.615	1.00	14.14
8678	C	LYS	B	366	15.284	24.340	4.442	1.00	11.03
8679	O	LYS	B	366	14.243	24.610	4.007	1.00	13.95
8680	N	ILE	B	367	15.384	23.395	5.304	1.00	12.49
8681	CA	ILE	B	367	14.257	22.592	5.769	1.00	10.99
8682	CB	ILE	B	367	14.785	21.235	6.058	1.00	9.95
8683	CG1	ILE	B	367	15.323	20.630	4.808	1.00	5.15
8684	CD1	ILE	B	367	15.834	19.101	5.129	1.00	11.56
8685	CG2	ILE	B	367	13.769	20.373	6.680	1.00	11.88
8686	C	ILE	B	367	13.711	23.149	7.074	1.00	11.18
8687	O	ILE	B	367	14.346	23.105	8.062	1.00	11.03
8688	N	PHE	B	368	12.556	23.738	7.043	1.00	9.85
8689	CA	PHE	B	368	11.763	23.845	8.245	1.00	9.75
8690	CB	PHE	B	368	11.685	25.275	8.682	1.00	9.96
8691	CG	PHE	B	368	11.577	26.226	7.577	1.00	11.63
8692	CD1	PHE	B	368	12.706	26.567	6.873	1.00	3.18
8693	CE1	PHE	B	368	12.706	27.531	5.953	1.00	5.91
8694	CZ	PHE	B	368	11.527	28.233	5.686	1.00	10.70
8695	CE2	PHE	B	368	10.349	27.868	6.366	1.00	10.68
8696	CD2	PHE	B	368	10.379	26.861	7.327	1.00	4.81
8697	C	PHE	B	368	10.293	23.420	8.085	1.00	7.92
8698	O	PHE	B	368	9.830	23.176	6.991	1.00	5.99
8699	N	SER	B	369	9.611	23.409	9.205	1.00	6.66
8700	CA	SER	B	369	8.211	23.099	9.271	1.00	6.44
8701	CB	SER	B	369	7.753	23.310	10.701	1.00	6.50
8702	OG	SER	B	369	8.424	22.597	11.640	1.00	7.40
8703	C	SER	B	369	7.372	24.140	8.438	1.00	8.26
8704	O	SER	B	369	7.581	25.400	8.649	1.00	5.72
8705	N	ASP	B	370	6.419	23.597	7.654	1.00	8.06
8706	CA	ASP	B	370	5.378	24.324	6.897	1.00	9.94
8707	CB	ASP	B	370	5.136	23.635	5.565	1.00	7.69
8708	CG	ASP	B	370	4.356	22.295	5.696	1.00	11.27
8709	OD1	ASP	B	370	4.157	21.586	4.698	1.00	12.13
8710	OD2	ASP	B	370	3.888	21.844	6.756	1.00	15.34
8711	C	ASP	B	370	4.036	24.507	7.705	1.00	12.26
8712	O	ASP	B	370	3.945	24.072	8.893	1.00	15.12

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8713	N	LYS	B	371	3.022	25.120	7.084	1.00	12.03
8714	CA	LYS	B	371	1.801	25.562	7.779	1.00	13.49
8715	CB	LYS	B	371	0.837	26.519	6.933	1.00	13.07
8716	CG	LYS	B	371	-0.069	25.923	5.698	1.00	14.81
8717	CD	LYS	B	371	0.376	26.451	4.193	1.00	15.57
8718	CE	LYS	B	371	1.983	25.944	3.625	1.00	14.69
8719	NZ	LYS	B	371	3.355	26.448	4.238	1.00	2.00
8720	C	LYS	B	371	1.061	24.355	8.252	1.00	14.19
8721	O	LYS	B	371	0.205	24.512	9.105	1.00	14.34
8722	N	ASP	B	372	1.434	23.159	7.745	1.00	14.81
8723	CA	ASP	B	372	0.808	21.868	8.141	1.00	15.26
8724	CB	ASP	B	372	0.610	20.918	6.931	1.00	14.90
8725	CG	ASP	B	372	-0.480	21.390	5.959	1.00	16.53
8726	OD1	ASP	B	372	-0.322	21.220	4.741	1.00	20.00
8727	OD2	ASP	B	372	-1.498	21.953	6.304	1.00	11.60
8728	C	ASP	B	372	1.667	21.098	9.117	1.00	15.70
8729	O	ASP	B	372	1.492	19.890	9.314	1.00	16.48
8730	N	GLY	B	373	2.608	21.785	9.721	1.00	14.31
8731	CA	GLY	B	373	3.630	21.130	10.502	1.00	13.91
8732	C	GLY	B	373	4.510	20.027	9.946	1.00	12.61
8733	O	GLY	B	373	4.936	19.168	10.729	1.00	13.59
8734	N	TYR	B	374	4.793	20.031	8.656	1.00	11.34
8735	CA	TYR	B	374	5.753	19.041	8.096	1.00	10.23
8736	CB	TYR	B	374	5.141	18.235	6.936	1.00	11.32
8737	CG	TYR	B	374	4.064	17.261	7.423	1.00	8.39
8738	CD1	TYR	B	374	4.393	16.034	7.861	1.00	7.67
8739	CE1	TYR	B	374	3.448	15.125	8.329	1.00	11.47
8740	CZ	TYR	B	374	2.175	15.447	8.386	1.00	9.08
8741	OH	TYR	B	374	1.325	14.517	8.898	1.00	10.53
8742	CE2	TYR	B	374	1.793	16.656	7.931	1.00	9.07
8743	CD2	TYR	B	374	2.743	17.587	7.455	1.00	9.67
8744	C	TYR	B	374	6.974	19.765	7.665	1.00	11.38
8745	O	TYR	B	374	6.921	20.835	7.129	1.00	12.63
8746	N	LYS	B	375	8.140	19.273	8.045	1.00	11.21
8747	CA	LYS	B	375	9.367	19.942	7.658	1.00	9.29
8748	CB	LYS	B	375	10.441	19.586	8.626	1.00	6.90
8749	CG	LYS	B	375	10.038	19.885	10.042	1.00	7.99
8750	CD	LYS	B	375	11.332	19.678	10.987	1.00	3.93
8751	CE	LYS	B	375	10.871	19.759	12.479	1.00	12.06
8752	NZ	LYS	B	375	10.144	21.083	12.930	1.00	4.56
8753	C	LYS	B	375	9.797	19.746	6.144	1.00	9.64
8754	O	LYS	B	375	10.196	18.659	5.655	1.00	7.01
8755	N	HIS	B	376	9.659	20.840	5.393	1.00	7.97
8756	CA	HIS	B	376	10.081	20.751	4.042	1.00	7.46
8757	CB	HIS	B	376	8.888	20.776	3.184	1.00	5.92
8758	CG	HIS	B	376	8.118	19.526	3.214	1.00	5.80
8759	ND1	HIS	B	376	8.403	18.472	2.392	1.00	2.89
8760	CE1	HIS	B	376	7.499	17.530	2.577	1.00	3.40
8761	NE2	HIS	B	376	6.751	17.862	3.607	1.00	6.73
8762	CD2	HIS	B	376	7.111	19.120	4.018	1.00	11.73
8763	C	HIS	B	376	11.091	21.820	3.673	1.00	6.64

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8764	O	HIS	B	376	11.371	22.629	4.524	1.00	6.69
8765	N	ILE	B	377	11.547	21.767	2.408	1.00	5.66
8766	CA	ILE	B	377	12.579	22.635	1.795	1.00	3.80
8767	CB	ILE	B	377	13.282	21.838	0.682	1.00	2.88
8768	CG1	ILE	B	377	14.032	20.676	1.282	1.00	2.49
8769	CD1	ILE	B	377	14.555	19.730	0.274	1.00	4.69
8770	CG2	ILE	B	377	14.378	22.622	-0.013	1.00	7.04
8771	C	ILE	B	377	11.988	23.870	1.254	1.00	5.69
8772	O	ILE	B	377	10.939	23.891	0.687	1.00	3.88
8773	N	HIS	B	378	12.568	24.985	1.573	1.00	7.59
8774	CA	HIS	B	378	11.968	26.276	1.150	1.00	7.92
8775	CB	HIS	B	378	11.465	27.093	2.288	1.00	5.94
8776	CG	HIS	B	378	10.345	26.452	3.031	1.00	12.21
8777	ND1	HIS	B	378	9.115	27.095	3.247	1.00	7.55
8778	CE1	HIS	B	378	8.346	26.285	3.951	1.00	12.30
8779	NE2	HIS	B	378	9.012	25.151	4.168	1.00	13.18
8780	CD2	HIS	B	378	10.241	25.208	3.548	1.00	9.16
8781	C	HIS	B	378	13.025	26.980	0.523	1.00	7.98
8782	O	HIS	B	378	14.151	26.732	0.904	1.00	10.22
8783	N	TYR	B	379	12.704	27.787	-0.484	1.00	7.69
8784	CA	TYR	B	379	13.743	28.418	-1.250	1.00	9.35
8785	CB	TYR	B	379	13.502	28.124	-2.706	1.00	9.29
8786	CG	TYR	B	379	14.283	28.977	-3.652	1.00	11.93
8787	CD1	TYR	B	379	13.667	29.498	-4.751	1.00	13.60
8788	CE1	TYR	B	379	14.346	30.257	-5.674	1.00	18.02
8789	CZ	TYR	B	379	15.685	30.503	-5.494	1.00	16.35
8790	OH	TYR	B	379	16.252	31.275	-6.425	1.00	17.97
8791	CE2	TYR	B	379	16.349	30.017	-4.394	1.00	13.49
8792	CD2	TYR	B	379	15.645	29.239	-3.458	1.00	12.76
8793	C	TYR	B	379	13.640	29.892	-0.910	1.00	9.29
8794	O	TYR	B	379	12.706	30.542	-1.238	1.00	7.65
8795	N	ILE	B	380	14.658	30.396	-0.287	1.00	9.50
8796	CA	ILE	B	380	14.651	31.757	0.246	1.00	10.02
8797	CB	ILE	B	380	14.998	31.696	1.713	1.00	9.00
8798	CG1	ILE	B	380	14.208	30.465	2.287	1.00	10.02
8799	CD1	ILE	B	380	14.043	30.470	3.684	1.00	4.19
8800	CG2	ILE	B	380	14.533	32.970	2.322	1.00	8.59
8801	C	ILE	B	380	15.607	32.600	-0.481	1.00	13.01
8802	O	ILE	B	380	16.799	32.139	-0.755	1.00	13.03
8803	N	LYS	B	381	15.069	33.759	-0.850	1.00	13.67
8804	CA	LYS	B	381	15.711	34.731	-1.651	1.00	17.23
8805	CB	LYS	B	381	15.077	34.877	-3.021	1.00	17.69
8806	CG	LYS	B	381	15.388	33.715	-3.996	1.00	19.06
8807	CD	LYS	B	381	15.090	34.057	-5.498	1.00	15.42
8808	CE	LYS	B	381	16.055	35.162	-5.866	1.00	20.44
8809	NZ	LYS	B	381	16.146	35.583	-7.268	1.00	22.55
8810	C	LYS	B	381	15.904	36.133	-1.079	1.00	19.32
8811	O	LYS	B	381	17.038	36.606	-1.186	1.00	23.29
8812	N	ASP	B	382	14.891	36.861	-0.600	1.00	19.54
8813	CA	ASP	B	382	15.186	38.094	0.159	1.00	20.77
8814	CB	ASP	B	382	14.704	39.466	-0.471	1.00	19.72

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8815	CG	ASP	B	382	13.076	39.648	-0.683	1.00	26.41
8816	OD1	ASP	B	382	12.208	38.821	-0.302	1.00	28.64
8817	OD2	ASP	B	382	12.534	40.681	-1.313	1.00	33.29
8818	C	ASP	B	382	14.854	37.908	1.639	1.00	21.06
8819	O	ASP	B	382	15.756	38.082	2.524	1.00	22.14
8820	N	THR	B	383	13.618	37.473	1.895	1.00	19.42
8821	CA	THR	B	383	12.999	37.466	3.197	1.00	19.59
8822	CB	THR	B	383	11.751	38.464	3.350	1.00	19.53
8823	OG1	THR	B	383	10.636	38.018	2.553	1.00	19.94
8824	CG2	THR	B	383	12.017	39.929	2.962	1.00	17.07
8825	C	THR	B	383	12.361	36.163	3.270	1.00	20.98
8826	O	THR	B	383	11.987	35.591	2.245	1.00	22.21
8827	N	VAL	B	384	12.023	35.790	4.493	1.00	21.55
8828	CA	VAL	B	384	11.765	34.394	4.807	1.00	19.98
8829	CB	VAL	B	384	12.411	34.058	6.190	1.00	20.51
8830	CG1	VAL	B	384	12.457	32.588	6.483	1.00	21.42
8831	CG2	VAL	B	384	11.731	34.829	7.318	1.00	20.52
8832	C	VAL	B	384	10.272	34.207	4.772	1.00	18.76
8833	O	VAL	B	384	9.751	33.121	4.462	1.00	18.46
8834	N	GLU	B	385	9.580	35.283	5.080	1.00	16.16
8835	CA	GLU	B	385	8.202	35.428	4.738	1.00	15.85
8836	CB	GLU	B	385	7.654	36.808	5.210	1.00	16.74
8837	CG	GLU	B	385	7.889	37.199	6.684	1.00	19.35
8838	CD	GLU	B	385	9.257	37.796	6.941	1.00	24.63
8839	OE1	GLU	B	385	9.976	38.149	5.993	1.00	23.60
8840	OE2	GLU	B	385	9.616	37.917	8.115	1.00	33.23
8841	C	GLU	B	385	7.838	35.336	3.252	1.00	15.13
8842	O	GLU	B	385	6.709	35.648	2.925	1.00	13.85
8843	N	ASN	B	386	8.771	35.094	2.351	1.00	13.28
8844	CA	ASN	B	386	8.516	35.029	0.904	1.00	13.01
8845	CB	ASN	B	386	9.193	36.171	0.179	1.00	12.23
8846	CG	ASN	B	386	8.435	37.399	0.231	1.00	11.75
8847	OD1	ASN	B	386	7.207	37.407	0.355	1.00	18.90
8848	ND2	ASN	B	386	9.124	38.480	0.062	1.00	16.19
8849	C	ASN	B	386	9.162	33.779	0.427	1.00	12.84
8850	O	ASN	B	386	9.201	33.534	-0.755	1.00	14.59
8851	N	ALA	B	387	9.743	33.034	1.355	1.00	8.50
8852	CA	ALA	B	387	10.152	31.647	1.136	1.00	8.19
8853	CB	ALA	B	387	10.144	30.900	2.419	1.00	7.84
8854	C	ALA	B	387	9.196	31.046	0.270	1.00	8.59
8855	O	ALA	B	387	8.035	31.306	0.493	1.00	8.87
8856	N	ILE	B	388	9.598	30.361	-0.780	1.00	8.78
8857	CA	ILE	B	388	8.615	29.496	-1.362	1.00	9.98
8858	CB	ILE	B	388	8.329	29.685	-2.889	1.00	11.04
8859	CG1	ILE	B	388	9.030	28.660	-3.643	1.00	8.52
8860	CD1	ILE	B	388	8.138	28.157	-4.564	1.00	10.96
8861	CG2	ILE	B	388	8.641	31.053	-3.552	1.00	11.44
8862	C	ILE	B	388	8.865	28.071	-1.092	1.00	10.84
8863	O	ILE	B	388	9.990	27.590	-1.108	1.00	10.51
8864	N	GLN	B	389	7.820	27.313	-0.864	1.00	11.22
8865	CA	GLN	B	389	8.082	25.907	-0.467	1.00	11.61

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8866	CB	GLN	B	389	6.900	25.368	0.355	1.00	11.87
8867	CG	GLN	B	389	7.123	24.033	1.103	1.00	11.83
8868	CD	GLN	B	389	5.841	23.562	1.837	1.00	13.01
8869	OE1	GLN	B	389	4.897	24.348	2.111	1.00	8.85
8870	NE2	GLN	B	389	5.824	22.293	2.156	1.00	12.17
8871	C	GLN	B	389	8.321	25.022	-1.694	1.00	11.41
8872	O	GLN	B	389	7.556	24.973	-2.611	1.00	11.52
8873	N	ILE	B	390	9.364	24.266	-1.732	1.00	11.37
8874	CA	ILE	B	390	9.539	23.518	-2.963	1.00	10.56
8875	CB	ILE	B	390	10.776	23.982	-3.725	1.00	9.22
8876	CG1	ILE	B	390	11.997	23.652	-2.948	1.00	8.58
8877	CD1	ILE	B	390	13.181	24.176	-3.608	1.00	9.12
8878	CG2	ILE	B	390	10.677	25.446	-4.047	1.00	2.00
8879	C	ILE	B	390	9.527	22.065	-2.786	1.00	10.54
8880	O	ILE	B	390	9.722	21.367	-3.709	1.00	11.53
8881	N	THR	B	391	9.224	21.621	-1.600	1.00	10.44
8882	CA	THR	B	391	8.840	20.208	-1.353	1.00	10.87
8883	CB	THR	B	391	10.025	19.555	-0.732	1.00	12.30
8884	OG1	THR	B	391	10.782	18.872	-1.727	1.00	16.58
8885	CG2	THR	B	391	9.670	18.543	0.246	1.00	9.97
8886	C	THR	B	391	7.592	20.227	-0.362	1.00	11.17
8887	O	THR	B	391	7.408	21.173	0.370	1.00	10.35
8888	N	SER	B	392	6.749	19.207	-0.379	1.00	10.28
8889	CA	SER	B	392	5.598	19.121	0.482	1.00	11.45
8890	CB	SER	B	392	4.587	20.206	0.115	1.00	11.79
8891	OG	SER	B	392	4.009	19.931	-1.158	1.00	14.61
8892	C	SER	B	392	4.840	17.779	0.387	1.00	10.78
8893	O	SER	B	392	4.980	17.090	-0.575	1.00	10.55
8894	N	GLY	B	393	3.965	17.514	1.363	1.00	11.21
8895	CA	GLY	B	393	3.422	16.201	1.645	1.00	11.01
8896	C	GLY	B	393	3.423	15.830	3.132	1.00	11.76
8897	O	GLY	B	393	3.959	16.541	3.993	1.00	9.32
8898	N	LYS	B	394	2.827	14.649	3.405	1.00	11.83
8899	CA	LYS	B	394	2.779	14.085	4.766	1.00	10.94
8900	CB	LYS	B	394	1.370	13.501	5.125	1.00	11.29
8901	CG	LYS	B	394	0.151	14.500	4.968	1.00	11.29
8902	CD	LYS	B	394	-1.193	13.762	5.201	1.00	20.20
8903	CE	LYS	B	394	-2.289	14.269	4.292	1.00	27.29
8904	NZ	LYS	B	394	-3.241	15.343	4.816	1.00	29.12
8905	C	LYS	B	394	3.913	13.077	4.903	1.00	10.11
8906	O	LYS	B	394	3.748	11.813	4.985	1.00	9.64
8907	N	TRP	B	395	5.089	13.687	4.940	1.00	9.01
8908	CA	TRP	B	395	6.363	13.028	5.062	1.00	8.81
8909	CB	TRP	B	395	6.615	12.228	3.774	1.00	7.55
8910	CG	TRP	B	395	6.485	13.028	2.490	1.00	12.22
8911	CD1	TRP	B	395	5.355	13.151	1.703	1.00	14.55
8912	NE1	TRP	B	395	5.598	13.966	0.617	1.00	9.60
8913	CE2	TRP	B	395	6.903	14.347	0.637	1.00	13.96
8914	CD2	TRP	B	395	7.488	13.825	1.818	1.00	12.01
8915	CE3	TRP	B	395	8.804	14.140	2.072	1.00	11.21
8916	CZ3	TRP	B	395	9.533	14.984	1.137	1.00	13.18

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8917	CH2	TRP	B	395	8.935	15.477	0.035	1.00	11.16
8918	CZ2	TRP	B	395	7.608	15.187	-0.247	1.00	18.42
8919	C	TRP	B	395	7.351	14.211	5.258	1.00	9.22
8920	O	TRP	B	395	6.914	15.319	5.222	1.00	7.00
8921	N	GLU	B	396	8.658	14.018	5.535	1.00	10.71
8922	CA	GLU	B	396	9.568	15.173	5.437	1.00	11.54
8923	CB	GLU	B	396	9.813	15.901	6.743	1.00	13.35
8924	CG	GLU	B	396	9.421	15.207	8.037	1.00	19.13
8925	CD	GLU	B	396	9.058	16.236	9.122	1.00	17.07
8926	OE1	GLU	B	396	7.939	16.632	9.125	1.00	21.81
8927	OE2	GLU	B	396	9.838	16.613	9.952	1.00	12.93
8928	C	GLU	B	396	10.863	14.926	4.831	1.00	11.97
8929	O	GLU	B	396	11.260	13.746	4.581	1.00	12.92
8930	N	ALA	B	397	11.508	16.082	4.618	1.00	9.42
8931	CA	ALA	B	397	12.794	16.161	4.117	1.00	11.63
8932	CB	ALA	B	397	12.952	17.379	3.200	1.00	12.33
8933	C	ALA	B	397	13.681	16.300	5.300	1.00	12.85
8934	O	ALA	B	397	13.384	17.141	6.202	1.00	13.06
8935	N	ILE	B	398	14.812	15.545	5.253	1.00	12.49
8936	CA	ILE	B	398	15.635	15.235	6.400	1.00	11.66
8937	CB	ILE	B	398	15.886	13.737	6.507	1.00	11.40
8938	CG1	ILE	B	398	14.631	12.895	6.212	1.00	11.30
8939	CD1	ILE	B	398	13.677	12.841	7.301	1.00	6.39
8940	CG2	ILE	B	398	16.281	13.365	7.895	1.00	10.41
8941	C	ILE	B	398	16.955	15.946	6.256	1.00	13.46
8942	O	ILE	B	398	17.372	16.596	7.129	1.00	14.98
8943	N	ASN	B	399	17.634	15.829	5.172	1.00	12.52
8944	CA	ASN	B	399	18.799	16.569	5.034	1.00	13.78
8945	CB	ASN	B	399	20.068	15.742	5.317	1.00	15.61
8946	CG	ASN	B	399	20.148	15.301	6.696	1.00	25.90
8947	OD1	ASN	B	399	20.330	16.127	7.592	1.00	32.03
8948	ND2	ASN	B	399	20.066	13.944	6.918	1.00	33.18
8949	C	ASN	B	399	18.892	17.077	3.630	1.00	12.81
8950	O	ASN	B	399	18.730	16.312	2.704	1.00	10.63
8951	N	ILE	B	400	19.208	18.355	3.495	1.00	12.28
8952	CA	ILE	B	400	19.667	18.832	2.227	1.00	12.60
8953	CB	ILE	B	400	19.442	20.270	2.039	1.00	11.08
8954	CG1	ILE	B	400	18.000	20.651	2.177	1.00	9.45
8955	CD1	ILE	B	400	17.882	22.321	2.206	1.00	5.78
8956	CG2	ILE	B	400	19.822	20.618	0.634	1.00	10.07
8957	C	ILE	B	400	21.171	18.583	2.061	1.00	15.26
8958	O	ILE	B	400	21.988	19.261	2.752	1.00	16.70
8959	N	PHE	B	401	21.528	17.689	1.120	1.00	15.34
8960	CA	PHE	B	401	22.943	17.326	0.915	1.00	15.26
8961	CB	PHE	B	401	23.027	15.989	0.280	1.00	14.85
8962	CG	PHE	B	401	22.810	14.902	1.214	1.00	15.81
8963	CD1	PHE	B	401	21.565	14.381	1.372	1.00	14.29
8964	CE1	PHE	B	401	21.357	13.329	2.235	1.00	15.63
8965	CZ	PHE	B	401	22.433	12.778	2.915	1.00	14.00
8966	CE2	PHE	B	401	23.650	13.300	2.804	1.00	7.29
8967	CD2	PHE	B	401	23.857	14.389	1.950	1.00	7.48

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
8968	C	PHE	B	401	23.761	18.172	0.036	1.00	15.45
8969	O	PHE	B	401	24.903	18.381	0.322	1.00	17.06
8970	N	ARG	B	402	23.232	18.556	-1.106	1.00	15.40
8971	CA	ARG	B	402	23.923	19.434	-2.014	1.00	15.45
8972	CB	ARG	B	402	24.747	18.603	-2.950	1.00	17.08
8973	CG	ARG	B	402	25.910	19.366	-3.593	1.00	17.70
8974	CD	ARG	B	402	27.162	19.170	-2.801	1.00	22.91
8975	NE	ARG	B	402	28.226	19.992	-3.348	1.00	31.73
8976	CZ	ARG	B	402	29.523	19.842	-3.033	1.00	35.02
8977	NH1	ARG	B	402	29.918	18.871	-2.160	1.00	34.42
8978	NH2	ARG	B	402	30.418	20.639	-3.621	1.00	27.25
8979	C	ARG	B	402	23.001	20.281	-2.827	1.00	15.67
8980	O	ARG	B	402	21.921	19.874	-3.130	1.00	17.18
8981	N	VAL	B	403	23.452	21.455	-3.212	1.00	14.54
8982	CA	VAL	B	403	22.765	22.287	-4.130	1.00	13.59
8983	CB	VAL	B	403	22.356	23.664	-3.444	1.00	14.78
8984	CG1	VAL	B	403	21.881	24.715	-4.475	1.00	7.71
8985	CG2	VAL	B	403	21.237	23.443	-2.468	1.00	10.29
8986	C	VAL	B	403	23.749	22.637	-5.209	1.00	14.45
8987	O	VAL	B	403	24.744	23.118	-4.859	1.00	16.74
8988	N	THR	B	404	23.426	22.468	-6.516	1.00	14.79
8989	CA	THR	B	404	24.276	22.766	-7.656	1.00	15.44
8990	CB	THR	B	404	24.567	21.491	-8.518	1.00	14.59
8991	OG1	THR	B	404	23.429	21.011	-9.202	1.00	11.90
8992	CG2	THR	B	404	24.886	20.407	-7.666	1.00	10.92
8993	C	THR	B	404	23.677	23.926	-8.460	1.00	17.39
8994	O	THR	B	404	22.856	24.652	-7.882	1.00	20.16
8995	N	GLN	B	405	24.032	24.122	-9.749	1.00	18.07
8996	CA	GLN	B	405	23.397	25.224	-10.503	1.00	18.44
8997	CB	GLN	B	405	24.106	25.589	-11.822	1.00	20.01
8998	CG	GLN	B	405	25.602	25.933	-11.749	1.00	26.79
8999	CD	GLN	B	405	26.492	24.908	-12.516	1.00	35.50
9000	OE1	GLN	B	405	26.702	25.034	-13.775	1.00	36.13
9001	NE2	GLN	B	405	27.019	23.871	-11.746	1.00	38.42
9002	C	GLN	B	405	21.986	24.803	-10.883	1.00	17.47
9003	O	GLN	B	405	21.158	25.678	-11.204	1.00	14.38
9004	N	ASP	B	406	21.773	23.471	-10.891	1.00	16.55
9005	CA	ASP	B	406	20.590	22.810	-11.471	1.00	16.23
9006	CB	ASP	B	406	20.953	21.778	-12.501	1.00	16.26
9007	CG	ASP	B	406	21.694	22.352	-13.635	1.00	22.16
9008	OD1	ASP	B	406	22.340	21.540	-14.355	1.00	28.50
9009	OD2	ASP	B	406	21.708	23.601	-13.894	1.00	23.98
9010	C	ASP	B	406	19.798	22.037	-10.531	1.00	15.88
9011	O	ASP	B	406	18.581	22.100	-10.626	1.00	18.05
9012	N	SER	B	407	20.436	21.212	-9.726	1.00	13.60
9013	CA	SER	B	407	19.751	20.315	-8.844	1.00	12.76
9014	CB	SER	B	407	20.205	18.892	-9.197	1.00	13.15
9015	OG	SER	B	407	20.169	18.710	-10.617	1.00	16.94
9016	C	SER	B	407	19.909	20.569	-7.321	1.00	11.69
9017	O	SER	B	407	20.758	21.319	-6.897	1.00	11.86
9018	N	LEU	B	408	19.058	19.985	-6.476	1.00	10.98

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9019	CA	LEU	B	408	19.285	20.002	-5.052	1.00	9.67
9020	CB	LEU	B	408	18.365	20.994	-4.371	1.00	10.22
9021	CG	LEU	B	408	18.318	21.072	-2.834	1.00	8.20
9022	CD1	LEU	B	408	17.500	22.368	-2.505	1.00	4.10
9023	CD2	LEU	B	408	17.583	19.755	-2.216	1.00	2.00
9024	C	LEU	B	408	19.048	18.577	-4.669	1.00	11.26
9025	O	LEU	B	408	17.992	18.062	-5.065	1.00	12.25
9026	N	PHE	B	409	20.039	17.905	-4.018	1.00	9.45
9027	CA	PHE	B	409	19.941	16.521	-3.581	1.00	9.53
9028	CB	PHE	B	409	21.267	15.745	-3.607	1.00	8.29
9029	CG	PHE	B	409	21.766	15.478	-5.008	1.00	8.61
9030	CD1	PHE	B	409	22.569	16.400	-5.631	1.00	2.00
9031	CE1	PHE	B	409	22.896	16.291	-6.818	1.00	2.00
9032	CZ	PHE	B	409	22.563	15.199	-7.506	1.00	2.00
9033	CE2	PHE	B	409	21.853	14.168	-6.881	1.00	3.79
9034	CD2	PHE	B	409	21.408	14.335	-5.692	1.00	2.61
9035	C	PHE	B	409	19.529	16.641	-2.168	1.00	10.90
9036	O	PHE	B	409	20.115	17.415	-1.418	1.00	11.59
9037	N	TYR	B	410	18.541	15.821	-1.750	1.00	11.12
9038	CA	TYR	B	410	18.063	15.834	-0.381	1.00	9.93
9039	CB	TYR	B	410	16.983	16.868	-0.212	1.00	9.50
9040	CG	TYR	B	410	15.666	16.533	-0.872	1.00	7.44
9041	CD1	TYR	B	410	14.663	15.875	-0.184	1.00	6.45
9042	CE1	TYR	B	410	13.486	15.553	-0.731	1.00	4.13
9043	CZ	TYR	B	410	13.255	15.888	-2.009	1.00	7.35
9044	OH	TYR	B	410	12.083	15.653	-2.614	1.00	7.98
9045	CE2	TYR	B	410	14.197	16.507	-2.710	1.00	8.48
9046	CD2	TYR	B	410	15.434	16.844	-2.126	1.00	5.14
9047	C	TYR	B	410	17.546	14.492	0.013	1.00	10.13
9048	O	TYR	B	410	17.070	13.749	-0.809	1.00	9.90
9049	N	SER	B	411	17.726	14.150	1.262	1.00	11.70
9050	CA	SER	B	411	17.106	12.942	1.751	1.00	11.93
9051	CB	SER	B	411	17.939	12.241	2.768	1.00	11.87
9052	OG	SER	B	411	17.823	12.805	4.011	1.00	12.09
9053	C	SER	B	411	15.727	13.184	2.303	1.00	13.44
9054	O	SER	B	411	15.390	14.340	2.728	1.00	14.07
9055	N	SER	B	412	14.980	12.062	2.294	1.00	12.47
9056	CA	SER	B	412	13.607	12.053	2.690	1.00	12.18
9057	CB	SER	B	412	12.793	12.765	1.650	1.00	13.31
9058	OG	SER	B	412	11.970	11.828	0.954	1.00	12.88
9059	C	SER	B	412	12.943	10.678	2.918	1.00	12.83
9060	O	SER	B	412	13.336	9.727	2.408	1.00	13.28
9061	N	ASN	B	413	11.920	10.663	3.731	1.00	11.81
9062	CA	ASN	B	413	11.046	9.519	3.971	1.00	11.47
9063	CB	ASN	B	413	10.788	9.389	5.464	1.00	11.43
9064	CG	ASN	B	413	10.065	10.587	6.107	1.00	10.92
9065	OD1	ASN	B	413	9.876	10.592	7.308	1.00	19.34
9066	ND2	ASN	B	413	9.618	11.541	5.331	1.00	17.31
9067	C	ASN	B	413	9.681	9.457	3.204	1.00	11.69
9068	O	ASN	B	413	8.725	8.768	3.646	1.00	12.19
9069	N	GLU	B	414	9.611	10.066	2.034	1.00	11.43

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9070	CA	GLU	B	414	8.392	10.016	1.211	1.00	12.25
9071	CB	GLU	B	414	8.490	11.065	0.129	1.00	11.09
9072	CG	GLU	B	414	7.464	10.925	-0.962	1.00	10.04
9073	CD	GLU	B	414	7.675	11.883	-2.108	1.00	10.07
9074	OE1	GLU	B	414	8.599	12.765	-2.088	1.00	15.13
9075	OE2	GLU	B	414	6.835	11.790	-2.987	1.00	12.81
9076	C	GLU	B	414	7.967	8.584	0.656	1.00	12.00
9077	O	GLU	B	414	6.795	8.202	0.610	1.00	10.51
9078	N	PHE	B	415	8.959	7.809	0.309	1.00	12.81
9079	CA	PHE	B	415	8.744	6.617	-0.439	1.00	14.52
9080	CB	PHE	B	415	10.067	5.976	-0.824	1.00	14.30
9081	CG	PHE	B	415	9.921	4.920	-1.895	1.00	14.75
9082	CD1	PHE	B	415	9.090	5.136	-2.993	1.00	15.90
9083	CE1	PHE	B	415	8.959	4.178	-3.937	1.00	15.50
9084	CZ	PHE	B	415	9.629	3.006	-3.821	1.00	13.94
9085	CE2	PHE	B	415	10.449	2.746	-2.743	1.00	14.46
9086	CD2	PHE	B	415	10.587	3.681	-1.784	1.00	16.96
9087	C	PHE	B	415	7.873	5.554	0.220	1.00	15.49
9088	O	PHE	B	415	8.205	5.059	1.311	1.00	16.27
9089	N	GLU	B	416	6.798	5.199	-0.492	1.00	16.05
9090	CA	GLU	B	416	5.822	4.214	-0.055	1.00	16.76
9091	CB	GLU	B	416	6.356	2.749	-0.267	1.00	16.90
9092	CG	GLU	B	416	6.498	2.291	-1.738	1.00	16.68
9093	CD	GLU	B	416	7.005	0.838	-1.921	1.00	18.24
9094	OE1	GLU	B	416	7.787	0.375	-1.085	1.00	14.84
9095	OE2	GLU	B	416	6.652	0.158	-2.941	1.00	22.17
9096	C	GLU	B	416	5.400	4.499	1.410	1.00	16.67
9097	O	GLU	B	416	4.996	3.570	2.173	1.00	16.88
9098	N	GLU	B	417	5.527	5.769	1.789	1.00	16.10
9099	CA	GLU	B	417	5.013	6.302	3.064	1.00	16.25
9100	CB	GLU	B	417	3.445	6.299	2.996	1.00	15.93
9101	CG	GLU	B	417	2.731	7.326	3.920	1.00	20.91
9102	CD	GLU	B	417	3.586	7.962	5.126	1.00	27.81
9103	OE1	GLU	B	417	3.314	7.484	6.307	1.00	26.65
9104	OE2	GLU	B	417	4.488	8.965	4.932	1.00	23.45
9105	C	GLU	B	417	5.660	5.710	4.414	1.00	15.52
9106	O	GLU	B	417	5.034	5.670	5.488	1.00	14.63
9107	N	TYR	B	418	6.929	5.285	4.381	1.00	14.90
9108	CA	TYR	B	418	7.506	4.630	5.572	1.00	14.10
9109	CB	TYR	B	418	8.376	3.457	5.195	1.00	13.03
9110	CG	TYR	B	418	7.639	2.193	4.985	1.00	11.58
9111	CD1	TYR	B	418	7.496	1.260	6.023	1.00	15.03
9112	CE1	TYR	B	418	6.807	0.052	5.816	1.00	12.57
9113	CZ	TYR	B	418	6.260	-0.191	4.570	1.00	13.35
9114	OH	TYR	B	418	5.615	-1.350	4.305	1.00	16.58
9115	CE2	TYR	B	418	6.404	0.697	3.543	1.00	14.02
9116	CD2	TYR	B	418	7.108	1.884	3.749	1.00	13.91
9117	C	TYR	B	418	8.379	5.623	6.211	1.00	14.21
9118	O	TYR	B	418	9.348	6.040	5.552	1.00	16.47
9119	N	PRO	B	419	8.097	6.068	7.439	1.00	13.67
9120	CA	PRO	B	419	8.902	7.212	8.008	1.00	12.49

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9121	CB	PRO	B	419	8.136	7.638	9.249	1.00	11.51
9122	CG	PRO	B	419	6.702	6.914	9.072	1.00	13.37
9123	CD	PRO	B	419	6.976	5.657	8.302	1.00	12.37
9124	C	PRO	B	419	10.340	6.845	8.400	1.00	11.94
9125	O	PRO	B	419	11.067	7.851	8.620	1.00	7.91
9126	N	GLY	B	420	10.677	5.505	8.500	1.00	10.43
9127	CA	GLY	B	420	12.030	5.028	8.778	1.00	9.43
9128	C	GLY	B	420	12.996	4.540	7.687	1.00	10.91
9129	O	GLY	B	420	13.945	3.718	7.950	1.00	11.03
9130	N	ARG	B	421	12.709	4.945	6.448	1.00	10.40
9131	CA	ARG	B	421	13.618	4.884	5.313	1.00	10.89
9132	CB	ARG	B	421	12.958	4.284	4.079	1.00	9.88
9133	CG	ARG	B	421	11.795	3.323	4.314	1.00	12.37
9134	CD	ARG	B	421	11.465	2.579	3.050	1.00	13.94
9135	NE	ARG	B	421	10.674	1.327	3.161	1.00	13.27
9136	CZ	ARG	B	421	10.185	0.759	2.114	1.00	9.71
9137	NH1	ARG	B	421	9.411	-0.294	2.165	1.00	9.09
9138	NH2	ARG	B	421	10.468	1.307	0.956	1.00	18.95
9139	C	ARG	B	421	14.198	6.316	4.950	1.00	11.90
9140	O	ARG	B	421	13.605	7.348	5.231	1.00	12.07
9141	N	ARG	B	422	15.391	6.315	4.374	1.00	11.51
9142	CA	ARG	B	422	15.839	7.434	3.656	1.00	12.42
9143	CB	ARG	B	422	17.037	8.096	4.318	1.00	12.07
9144	CG	ARG	B	422	16.988	8.179	5.780	1.00	13.50
9145	CD	ARG	B	422	16.130	9.240	6.265	1.00	15.07
9146	NE	ARG	B	422	16.196	9.357	7.718	1.00	16.13
9147	CZ	ARG	B	422	15.214	9.114	8.559	1.00	14.68
9148	NH1	ARG	B	422	15.453	9.327	9.849	1.00	12.64
9149	NH2	ARG	B	422	14.001	8.720	8.144	1.00	16.15
9150	C	ARG	B	422	16.207	7.044	2.246	1.00	13.14
9151	O	ARG	B	422	16.914	6.037	2.020	1.00	14.25
9152	N	ASN	B	423	15.712	7.893	1.329	1.00	12.09
9153	CA	ASN	B	423	15.964	7.808	-0.083	1.00	11.60
9154	CB	ASN	B	423	14.734	7.410	-0.865	1.00	9.33
9155	CG	ASN	B	423	14.496	5.946	-0.839	1.00	10.08
9156	OD1	ASN	B	423	15.268	5.105	-1.399	1.00	12.60
9157	ND2	ASN	B	423	13.475	5.597	-0.129	1.00	7.27
9158	C	ASN	B	423	16.416	9.192	-0.473	1.00	12.11
9159	O	ASN	B	423	16.255	10.198	0.230	1.00	13.70
9160	N	ILE	B	424	17.091	9.259	-1.580	1.00	12.91
9161	CA	ILE	B	424	17.737	10.472	-1.807	1.00	11.41
9162	CB	ILE	B	424	19.225	10.385	-1.579	1.00	12.74
9163	CG1	ILE	B	424	19.975	10.667	-2.795	1.00	9.56
9164	CD1	ILE	B	424	21.214	11.276	-2.341	1.00	17.16
9165	CG2	ILE	B	424	19.735	9.119	-0.897	1.00	6.59
9166	C	ILE	B	424	17.226	10.831	-3.166	1.00	12.79
9167	O	ILE	B	424	17.110	10.006	-4.034	1.00	11.37
9168	N	TYR	B	425	16.802	12.085	-3.241	1.00	12.63
9169	CA	TYR	B	425	16.060	12.600	-4.303	1.00	13.48
9170	CB	TYR	B	425	14.719	13.091	-3.707	1.00	13.75
9171	CG	TYR	B	425	13.717	11.973	-3.379	1.00	12.85

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9172	CD1	TYR	B	425	13.762	11.253	-2.178	1.00	13.77
9173	CE1	TYR	B	425	12.768	10.297	-1.823	1.00	12.85
9174	CZ	TYR	B	425	11.739	10.017	-2.690	1.00	16.45
9175	OH	TYR	B	425	10.732	9.050	-2.502	1.00	19.51
9176	CE2	TYR	B	425	11.712	10.681	-3.886	1.00	14.05
9177	CD2	TYR	B	425	12.713	11.689	-4.223	1.00	12.75
9178	C	TYR	B	425	16.869	13.694	-4.811	1.00	13.81
9179	O	TYR	B	425	17.701	14.214	-4.092	1.00	15.93
9180	N	ARG	B	426	16.694	14.025	-6.085	1.00	14.43
9181	CA	ARG	B	426	17.053	15.358	-6.573	1.00	13.95
9182	CB	ARG	B	426	18.170	15.294	-7.605	1.00	14.21
9183	CG	ARG	B	426	17.893	14.520	-8.864	1.00	15.10
9184	CD	ARG	B	426	19.183	14.055	-9.662	1.00	11.78
9185	NE	ARG	B	426	19.845	15.165	-10.349	1.00	12.45
9186	CZ	ARG	B	426	21.093	15.126	-10.809	1.00	12.98
9187	NH1	ARG	B	426	21.661	16.208	-11.299	1.00	11.17
9188	NH2	ARG	B	426	21.824	14.039	-10.645	1.00	9.83
9189	C	ARG	B	426	15.885	16.023	-7.216	1.00	15.09
9190	O	ARG	B	426	15.104	15.327	-7.844	1.00	16.95
9191	N	ILE	B	427	15.881	17.370	-7.176	1.00	13.66
9192	CA	ILE	B	427	14.902	18.167	-7.750	1.00	12.45
9193	CB	ILE	B	427	13.943	18.653	-6.610	1.00	13.27
9194	CG1	ILE	B	427	14.695	19.102	-5.415	1.00	9.38
9195	CD1	ILE	B	427	13.824	20.033	-4.587	1.00	12.23
9196	CG2	ILE	B	427	12.896	17.650	-6.120	1.00	11.24
9197	C	ILE	B	427	15.509	19.426	-8.496	1.00	13.39
9198	O	ILE	B	427	16.577	19.902	-8.182	1.00	14.45
9199	N	SER	B	428	14.789	20.001	-9.460	1.00	11.24
9200	CA	SER	B	428	15.379	21.034	-10.272	1.00	9.71
9201	CB	SER	B	428	14.824	21.041	-11.733	1.00	8.22
9202	OG	SER	B	428	13.470	20.639	-11.891	1.00	2.17
9203	C	SER	B	428	15.137	22.383	-9.543	1.00	11.82
9204	O	SER	B	428	14.019	22.628	-9.033	1.00	12.32
9205	N	ILE	B	429	16.163	23.258	-9.534	1.00	11.23
9206	CA	ILE	B	429	16.029	24.522	-8.940	1.00	12.14
9207	CB	ILE	B	429	17.085	24.714	-7.782	1.00	13.22
9208	CG1	ILE	B	429	18.519	25.225	-8.210	1.00	18.34
9209	CD1	ILE	B	429	19.078	26.928	-7.682	1.00	20.83
9210	CG2	ILE	B	429	17.238	23.366	-7.130	1.00	15.66
9211	C	ILE	B	429	15.863	25.658	-9.870	1.00	9.74
9212	O	ILE	B	429	15.582	26.672	-9.389	1.00	12.39
9213	N	GLY	B	430	15.862	25.483	-11.185	1.00	7.39
9214	CA	GLY	B	430	15.870	26.569	-12.110	1.00	5.15
9215	C	GLY	B	430	14.545	27.329	-12.295	1.00	6.39
9216	O	GLY	B	430	14.544	28.606	-12.585	1.00	6.97
9217	N	SER	B	431	13.446	26.569	-12.290	1.00	3.90
9218	CA	SER	B	431	12.096	27.119	-12.490	1.00	6.41
9219	CB	SER	B	431	11.587	26.794	-13.870	1.00	5.47
9220	OG	SER	B	431	11.612	25.396	-14.097	1.00	5.97
9221	C	SER	B	431	11.110	26.607	-11.521	1.00	6.59
9222	O	SER	B	431	11.267	25.465	-11.098	1.00	8.08

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9223	N	TYR	B	432	10.018	27.343	-11.231	1.00	8.54
9224	CA	TYR	B	432	9.144	26.906	-10.057	1.00	10.84
9225	CB	TYR	B	432	7.907	27.704	-9.703	1.00	10.35
9226	CG	TYR	B	432	7.026	26.979	-8.578	1.00	9.32
9227	CD1	TYR	B	432	5.688	26.827	-8.724	1.00	10.29
9228	CE1	TYR	B	432	4.908	26.267	-7.725	1.00	12.26
9229	CZ	TYR	B	432	5.453	25.866	-6.547	1.00	12.99
9230	OH	TYR	B	432	4.626	25.304	-5.630	1.00	13.15
9231	CE2	TYR	B	432	6.761	25.961	-6.363	1.00	7.42
9232	CD2	TYR	B	432	7.551	26.534	-7.396	1.00	9.01
9233	C	TYR	B	432	8.757	25.450	-9.928	1.00	12.24
9234	O	TYR	B	432	9.491	24.751	-9.149	1.00	18.40
9235	N	PRO	B	433	7.741	24.890	-10.563	1.00	11.39
9236	CA	PRO	B	433	7.300	23.506	-10.110	1.00	11.47
9237	CB	PRO	B	433	6.194	23.137	-11.030	1.00	8.60
9238	CG	PRO	B	433	6.517	23.941	-12.164	1.00	10.92
9239	CD	PRO	B	433	7.202	25.346	-11.814	1.00	8.72
9240	C	PRO	B	433	8.491	22.506	-10.359	1.00	12.93
9241	O	PRO	B	433	8.830	22.233	-11.541	1.00	15.00
9242	N	PRO	B	434	9.210	22.078	-9.350	1.00	12.93
9243	CA	PRO	B	434	10.449	21.388	-9.599	1.00	13.67
9244	CB	PRO	B	434	11.196	21.573	-8.302	1.00	13.73
9245	CG	PRO	B	434	10.173	21.747	-7.265	1.00	13.07
9246	CD	PRO	B	434	8.969	22.232	-7.920	1.00	14.36
9247	C	PRO	B	434	10.252	19.915	-9.998	1.00	15.01
9248	O	PRO	B	434	9.358	19.225	-9.603	1.00	14.19
9249	N	SER	B	435	11.134	19.457	-10.862	1.00	14.79
9250	CA	SER	B	435	11.065	18.100	-11.393	1.00	14.66
9251	CB	SER	B	435	11.971	17.977	-12.647	1.00	13.63
9252	OG	SER	B	435	11.267	17.922	-13.842	1.00	16.55
9253	C	SER	B	435	11.613	17.283	-10.231	1.00	12.59
9254	O	SER	B	435	12.223	17.831	-9.400	1.00	13.70
9255	N	LYS	B	436	11.429	15.976	-10.212	1.00	12.29
9256	CA	LYS	B	436	11.777	15.249	-9.068	1.00	11.68
9257	CB	LYS	B	436	10.547	15.208	-8.145	1.00	11.97
9258	CG	LYS	B	436	10.737	14.521	-6.770	1.00	9.89
9259	CD	LYS	B	436	9.989	15.269	-5.596	1.00	11.41
9260	CE	LYS	B	436	8.887	14.343	-4.904	1.00	12.36
9261	NZ	LYS	B	436	8.078	15.101	-3.842	1.00	4.92
9262	C	LYS	B	436	12.130	13.839	-9.465	1.00	11.42
9263	O	LYS	B	436	11.333	13.202	-10.085	1.00	11.00
9264	N	LYS	B	437	13.300	13.344	-9.064	1.00	10.15
9265	CA	LYS	B	437	13.596	11.921	-9.214	1.00	8.83
9266	CB	LYS	B	437	14.388	11.623	-10.531	1.00	8.55
9267	CG	LYS	B	437	15.868	11.347	-10.421	1.00	5.49
9268	CD	LYS	B	437	16.473	10.890	-11.741	1.00	7.86
9269	CE	LYS	B	437	17.522	9.652	-11.573	1.00	10.40
9270	NZ	LYS	B	437	18.294	9.359	-12.767	1.00	6.51
9271	C	LYS	B	437	14.177	11.349	-7.931	1.00	7.51
9272	O	LYS	B	437	15.057	11.909	-7.260	1.00	7.65
9273	N	CYS	B	438	13.530	10.289	-7.530	1.00	6.48

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9274	CA	CYS	B	438	14.001	9.482	-6.467	1.00	6.35
9275	CB	CYS	B	438	12.979	8.478	-6.045	1.00	8.84
9276	SG	CYS	B	438	13.493	7.873	-4.421	1.00	9.87
9277	C	CYS	B	438	15.159	8.741	-7.018	1.00	6.36
9278	O	CYS	B	438	15.008	7.839	-7.827	1.00	3.93
9279	N	VAL	B	439	16.348	9.154	-6.673	1.00	5.10
9280	CA	VAL	B	439	17.398	8.404	-7.242	1.00	6.44
9281	CB	VAL	B	439	18.752	9.064	-7.173	1.00	5.66
9282	CG1	VAL	B	439	18.992	9.454	-5.890	1.00	9.21
9283	CG2	VAL	B	439	19.786	8.086	-7.499	1.00	5.35
9284	C	VAL	B	439	17.362	7.001	-6.626	1.00	5.68
9285	O	VAL	B	439	17.534	6.075	-7.347	1.00	7.71
9286	N	THR	B	440	17.137	6.826	-5.338	1.00	5.54
9287	CA	THR	B	440	17.378	5.521	-4.677	1.00	6.60
9288	CB	THR	B	440	17.869	5.698	-3.330	1.00	8.24
9289	OG1	THR	B	440	17.080	6.672	-2.590	1.00	11.00
9290	CG2	THR	B	440	19.362	6.297	-3.419	1.00	10.06
9291	C	THR	B	440	16.234	4.542	-4.586	1.00	7.23
9292	O	THR	B	440	16.480	3.352	-4.417	1.00	6.35
9293	N	CYS	B	441	14.995	5.031	-4.724	1.00	6.05
9294	CA	CYS	B	441	13.858	4.221	-4.400	1.00	8.54
9295	CB	CYS	B	441	12.641	4.872	-4.986	1.00	8.24
9296	SG	CYS	B	441	12.267	6.252	-4.005	1.00	15.63
9297	C	CYS	B	441	13.938	2.752	-4.900	1.00	8.06
9298	O	CYS	B	441	13.624	1.794	-4.151	1.00	8.68
9299	N	HIS	B	442	14.322	2.634	-6.152	1.00	7.61
9300	CA	HIS	B	442	14.273	1.425	-6.950	1.00	8.75
9301	CB	HIS	B	442	13.411	1.687	-8.197	1.00	8.10
9302	CG	HIS	B	442	11.961	1.862	-7.882	1.00	10.31
9303	ND1	HIS	B	442	11.354	3.108	-7.788	1.00	9.28
9304	CE1	HIS	B	442	10.085	2.937	-7.439	1.00	10.36
9305	NE2	HIS	B	442	9.841	1.635	-7.350	1.00	10.28
9306	CD2	HIS	B	442	10.994	0.939	-7.620	1.00	9.34
9307	C	HIS	B	442	15.686	0.943	-7.362	1.00	9.58
9308	O	HIS	B	442	15.772	-0.016	-8.112	1.00	10.14
9309	N	LEU	B	443	16.769	1.620	-6.947	1.00	9.47
9310	CA	LEU	B	443	18.111	1.140	-7.225	1.00	9.35
9311	CB	LEU	B	443	19.200	1.893	-6.446	1.00	7.55
9312	CG	LEU	B	443	20.425	2.521	-7.148	1.00	9.09
9313	CD1	LEU	B	443	21.688	2.106	-6.475	1.00	9.44
9314	CD2	LEU	B	443	20.651	2.321	-8.681	1.00	8.89
9315	C	LEU	B	443	18.209	-0.330	-6.855	1.00	10.19
9316	O	LEU	B	443	18.520	-1.144	-7.707	1.00	10.49
9317	N	ARG	B	444	18.026	-0.661	-5.581	1.00	10.21
9318	CA	ARG	B	444	17.999	-2.068	-5.141	1.00	9.84
9319	CB	ARG	B	444	19.327	-2.461	-4.541	1.00	9.96
9320	CG	ARG	B	444	20.489	-2.133	-5.455	1.00	8.31
9321	CD	ARG	B	444	21.828	-2.249	-4.810	1.00	6.50
9322	NE	ARG	B	444	22.795	-2.674	-5.787	1.00	9.10
9323	CZ	ARG	B	444	23.741	-1.913	-6.323	1.00	11.22
9324	NH1	ARG	B	444	23.872	-0.639	-5.946	1.00	7.85

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9325	NH2	ARG	B	444	24.588	-2.452	-7.236	1.00	8.43
9326	C	ARG	B	444	16.903	-2.093	-4.130	1.00	10.00
9327	O	ARG	B	444	17.103	-1.779	-2.962	1.00	7.93
9328	N	LYS	B	445	15.699	-2.324	-4.598	1.00	9.85
9329	CA	LYS	B	445	14.575	-1.871	-3.791	1.00	11.50
9330	CB	LYS	B	445	13.251	-1.702	-4.613	1.00	10.84
9331	CG	LYS	B	445	11.964	-1.253	-3.850	1.00	13.31
9332	CD	LYS	B	445	10.612	-1.696	-4.662	1.00	22.12
9333	CE	LYS	B	445	9.382	-2.063	-3.663	1.00	24.18
9334	NZ	LYS	B	445	7.994	-1.968	-4.228	1.00	23.61
9335	C	LYS	B	445	14.456	-2.766	-2.535	1.00	11.39
9336	O	LYS	B	445	14.139	-2.223	-1.455	1.00	13.32
9337	N	GLU	B	446	14.723	-4.075	-2.639	1.00	10.78
9338	CA	GLU	B	446	14.609	-4.953	-1.444	1.00	10.81
9339	CB	GLU	B	446	14.418	-6.445	-1.823	1.00	10.37
9340	CG	GLU	B	446	12.945	-6.812	-1.950	1.00	12.18
9341	CD	GLU	B	446	12.676	-8.246	-2.460	1.00	14.88
9342	OE1	GLU	B	446	13.672	-9.055	-2.673	1.00	16.11
9343	OE2	GLU	B	446	11.439	-8.527	-2.651	1.00	11.91
9344	C	GLU	B	446	15.768	-4.828	-0.413	1.00	10.43
9345	O	GLU	B	446	15.505	-4.821	0.791	1.00	10.07
9346	N	ARG	B	447	17.011	-4.830	-0.906	1.00	9.34
9347	CA	ARG	B	447	18.204	-4.560	-0.123	1.00	8.92
9348	CB	ARG	B	447	19.439	-4.570	-1.037	1.00	9.16
9349	CG	ARG	B	447	20.650	-5.462	-0.579	1.00	10.72
9350	CD	ARG	B	447	21.991	-4.782	-0.542	1.00	9.80
9351	NE	ARG	B	447	22.874	-5.399	-1.497	1.00	11.89
9352	CZ	ARG	B	447	24.207	-5.604	-1.350	1.00	8.02
9353	NH1	ARG	B	447	24.854	-6.246	-2.337	1.00	7.27
9354	NH2	ARG	B	447	24.881	-5.216	-0.276	1.00	2.00
9355	C	ARG	B	447	18.335	-3.200	0.523	1.00	7.82
9356	O	ARG	B	447	18.996	-3.080	1.497	1.00	6.97
9357	N	CYS	B	448	17.789	-2.162	-0.068	1.00	7.66
9358	CA	CYS	B	448	18.255	-0.806	0.268	1.00	8.29
9359	CB	CYS	B	448	19.272	-0.329	-0.771	1.00	8.28
9360	SG	CYS	B	448	20.862	-1.169	-0.719	1.00	13.58
9361	C	CYS	B	448	17.121	0.258	0.357	1.00	7.62
9362	O	CYS	B	448	16.538	0.661	-0.645	1.00	4.00
9363	N	GLN	B	449	16.824	0.691	1.591	1.00	8.67
9364	CA	GLN	B	449	15.896	1.805	1.776	1.00	8.72
9365	CB	GLN	B	449	14.538	1.256	2.112	1.00	8.77
9366	CG	GLN	B	449	13.934	0.431	1.019	1.00	6.87
9367	CD	GLN	B	449	13.495	1.279	-0.184	1.00	15.48
9368	OE1	GLN	B	449	13.477	0.740	-1.331	1.00	17.30
9369	NE2	GLN	B	449	13.136	2.591	0.046	1.00	10.26
9370	C	GLN	B	449	16.375	2.779	2.821	1.00	9.24
9371	O	GLN	B	449	15.635	3.658	3.277	1.00	8.92
9372	N	TYR	B	450	17.636	2.682	3.157	1.00	9.36
9373	CA	TYR	B	450	18.131	3.598	4.113	1.00	10.71
9374	CB	TYR	B	450	18.105	2.907	5.489	1.00	9.83
9375	CG	TYR	B	450	18.172	3.923	6.564	1.00	8.13

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9376	CD1	TYR	B	450	17.111	4.235	7.310	1.00	7.39
9377	CE1	TYR	B	450	17.189	5.271	8.226	1.00	9.87
9378	CZ	TYR	B	450	18.377	5.932	8.381	1.00	10.81
9379	OH	TYR	B	450	18.567	6.873	9.336	1.00	12.81
9380	CE2	TYR	B	450	19.439	5.549	7.681	1.00	9.02
9381	CD2	TYR	B	450	19.329	4.607	6.779	1.00	11.24
9382	C	TYR	B	450	19.468	4.151	3.588	1.00	11.91
9383	O	TYR	B	450	20.479	3.542	3.633	1.00	12.36
9384	N	TYR	B	451	19.431	5.328	3.016	1.00	13.28
9385	CA	TYR	B	451	20.586	5.823	2.273	1.00	14.40
9386	CB	TYR	B	451	20.175	6.192	0.838	1.00	13.65
9387	CG	TYR	B	451	20.142	5.041	-0.121	1.00	14.15
9388	CD1	TYR	B	451	18.964	4.291	-0.376	1.00	12.29
9389	CE1	TYR	B	451	18.928	3.219	-1.302	1.00	11.44
9390	CZ	TYR	B	451	20.108	2.858	-1.932	1.00	17.31
9391	OH	TYR	B	451	20.271	1.815	-2.825	1.00	20.18
9392	CE2	TYR	B	451	21.303	3.546	-1.660	1.00	20.25
9393	CD2	TYR	B	451	21.304	4.658	-0.751	1.00	19.44
9394	C	TYR	B	451	21.135	7.059	2.865	1.00	15.40
9395	O	TYR	B	451	20.377	7.888	3.325	1.00	14.63
9396	N	THR	B	452	22.445	7.203	2.853	1.00	15.07
9397	CA	THR	B	452	22.978	8.578	2.948	1.00	16.39
9398	CB	THR	B	452	23.771	8.789	4.231	1.00	15.61
9399	OG1	THR	B	452	24.298	10.088	4.232	1.00	16.02
9400	CG2	THR	B	452	25.041	7.955	4.208	1.00	15.92
9401	C	THR	B	452	23.842	8.808	1.725	1.00	16.37
9402	O	THR	B	452	23.914	7.955	0.934	1.00	17.91
9403	N	ALA	B	453	24.443	9.984	1.570	1.00	16.15
9404	CA	ALA	B	453	25.215	10.292	0.412	1.00	15.84
9405	CB	ALA	B	453	24.325	10.877	-0.609	1.00	14.90
9406	C	ALA	B	453	26.320	11.310	0.688	1.00	16.71
9407	O	ALA	B	453	26.278	12.064	1.668	1.00	16.95
9408	N	SER	B	454	27.233	11.422	-0.276	1.00	16.12
9409	CA	SER	B	454	28.457	12.154	-0.086	1.00	15.84
9410	CB	SER	B	454	29.469	11.122	0.413	1.00	15.87
9411	OG	SER	B	454	30.650	11.732	0.740	1.00	14.89
9412	C	SER	B	454	28.907	12.654	-1.401	1.00	16.31
9413	O	SER	B	454	29.139	11.828	-2.303	1.00	16.78
9414	N	PHE	B	455	29.174	13.932	-1.520	1.00	15.43
9415	CA	PHE	B	455	29.426	14.485	-2.821	1.00	15.21
9416	CB	PHE	B	455	28.466	15.625	-3.059	1.00	16.21
9417	CG	PHE	B	455	27.057	15.151	-3.212	1.00	13.41
9418	CD1	PHE	B	455	26.475	15.031	-4.487	1.00	11.01
9419	CE1	PHE	B	455	25.209	14.540	-4.679	1.00	6.15
9420	CZ	PHE	B	455	24.455	14.203	-3.597	1.00	9.42
9421	CE2	PHE	B	455	24.950	14.402	-2.265	1.00	12.65
9422	CD2	PHE	B	455	26.295	14.845	-2.092	1.00	13.82
9423	C	PHE	B	455	30.812	14.931	-3.086	1.00	16.91
9424	O	PHE	B	455	31.383	15.692	-2.342	1.00	19.13
9425	N	SER	B	456	31.370	14.499	-4.212	1.00	16.65
9426	CA	SER	B	456	32.587	15.074	-4.725	1.00	15.79

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9427	CB	SER	B	456	32.919	14.398	-6.035	1.00	14.49
9428	OG	SER	B	456	32.565	15.022	-7.242	1.00	17.95
9429	C	SER	B	456	32.449	16.593	-4.801	1.00	17.80
9430	O	SER	B	456	31.332	17.091	-4.729	1.00	16.36
9431	N	ASP	B	457	33.554	17.348	-4.895	1.00	17.39
9432	CA	ASP	B	457	33.392	18.772	-5.162	1.00	18.69
9433	CB	ASP	B	457	34.722	19.502	-5.368	1.00	18.22
9434	CG	ASP	B	457	35.654	19.465	-4.172	1.00	20.12
9435	OD1	ASP	B	457	36.853	19.759	-4.452	1.00	19.01
9436	OD2	ASP	B	457	35.359	19.183	-2.995	1.00	20.47
9437	C	ASP	B	457	32.563	19.028	-6.455	1.00	18.70
9438	O	ASP	B	457	32.558	18.249	-7.368	1.00	21.24
9439	N	TYR	B	458	31.915	20.175	-6.536	1.00	19.40
9440	CA	TYR	B	458	31.026	20.536	-7.628	1.00	19.88
9441	CB	TYR	B	458	31.893	20.916	-8.873	1.00	22.27
9442	CG	TYR	B	458	32.969	22.020	-8.602	1.00	27.81
9443	CD1	TYR	B	458	34.014	22.269	-9.477	1.00	35.12
9444	CE1	TYR	B	458	35.008	23.282	-9.202	1.00	38.22
9445	CZ	TYR	B	458	34.911	24.004	-8.022	1.00	36.24
9446	OH	TYR	B	458	35.765	24.999	-7.628	1.00	34.85
9447	CE2	TYR	B	458	33.897	23.736	-7.159	1.00	39.86
9448	CD2	TYR	B	458	32.934	22.774	-7.447	1.00	36.00
9449	C	TYR	B	458	29.960	19.454	-7.907	1.00	18.64
9450	O	TYR	B	458	29.247	19.494	-8.876	1.00	18.47
9451	N	ALA	B	459	29.800	18.529	-7.006	1.00	16.84
9452	CA	ALA	B	459	28.970	17.347	-7.267	1.00	15.78
9453	CB	ALA	B	459	27.538	17.638	-7.054	1.00	15.51
9454	C	ALA	B	459	29.105	16.727	-8.587	1.00	15.44
9455	O	ALA	B	459	28.103	16.438	-9.148	1.00	15.12
9456	N	LYS	B	460	30.326	16.492	-9.104	1.00	15.02
9457	CA	LYS	B	460	30.438	15.654	-10.318	1.00	13.99
9458	CB	LYS	B	460	31.759	15.766	-11.033	1.00	14.80
9459	CG	LYS	B	460	32.539	17.090	-10.834	1.00	18.14
9460	CD	LYS	B	460	33.362	17.549	-12.101	1.00	24.48
9461	CE	LYS	B	460	32.959	19.045	-12.528	1.00	26.77
9462	NZ	LYS	B	460	31.593	19.627	-11.976	1.00	25.62
9463	C	LYS	B	460	30.155	14.182	-9.977	1.00	13.55
9464	O	LYS	B	460	29.673	13.399	-10.801	1.00	14.35
9465	N	TYR	B	461	30.403	13.789	-8.745	1.00	11.93
9466	CA	TYR	B	461	30.174	12.446	-8.396	1.00	9.45
9467	CB	TYR	B	461	31.456	11.587	-8.562	1.00	9.12
9468	CG	TYR	B	461	31.966	11.515	-9.978	1.00	9.69
9469	CD1	TYR	B	461	32.960	12.391	-10.387	1.00	12.64
9470	CE1	TYR	B	461	33.444	12.403	-11.708	1.00	12.35
9471	CZ	TYR	B	461	33.012	11.473	-12.618	1.00	10.65
9472	OH	TYR	B	461	33.587	11.627	-13.872	1.00	12.53
9473	CE2	TYR	B	461	32.025	10.522	-12.258	1.00	9.54
9474	CD2	TYR	B	461	31.496	10.558	-10.918	1.00	12.64
9475	C	TYR	B	461	29.661	12.422	-7.018	1.00	7.71
9476	O	TYR	B	461	29.772	13.427	-6.341	1.00	6.54
9477	N	TYR	B	462	29.005	11.297	-6.677	1.00	6.01

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9478	CA	TYR	B	462	28.570	11.050	-5.328	1.00	7.16
9479	CB	TYR	B	462	27.170	11.615	-5.028	1.00	7.02
9480	CG	TYR	B	462	26.029	11.150	-5.854	1.00	7.62
9481	CD1	TYR	B	462	25.658	11.801	-7.027	1.00	7.22
9482	CE1	TYR	B	462	24.556	11.369	-7.773	1.00	7.84
9483	CZ	TYR	B	462	23.791	10.316	-7.258	1.00	12.73
9484	OH	TYR	B	462	22.715	9.754	-7.863	1.00	10.06
9485	CE2	TYR	B	462	24.122	9.747	-6.084	1.00	10.30
9486	CD2	TYR	B	462	25.222	10.149	-5.390	1.00	9.23
9487	C	TYR	B	462	28.540	9.646	-4.992	1.00	7.59
9488	O	TYR	B	462	28.381	8.828	-5.865	1.00	9.98
9489	N	ALA	B	463	28.675	9.351	-3.713	1.00	7.53
9490	CA	ALA	B	463	28.654	8.004	-3.246	1.00	7.43
9491	CB	ALA	B	463	29.749	7.781	-2.244	1.00	6.39
9492	C	ALA	B	463	27.385	7.906	-2.553	1.00	9.40
9493	O	ALA	B	463	26.895	8.951	-2.033	1.00	9.27
9494	N	LEU	B	464	26.911	6.666	-2.446	1.00	8.82
9495	CA	LEU	B	464	25.595	6.435	-1.897	1.00	9.51
9496	CB	LEU	B	464	24.593	6.032	-3.001	1.00	8.98
9497	CG	LEU	B	464	23.743	7.070	-3.764	1.00	9.68
9498	CD1	LEU	B	464	22.878	6.489	-4.851	1.00	8.61
9499	CD2	LEU	B	464	22.866	7.768	-2.844	1.00	10.66
9500	C	LEU	B	464	25.815	5.253	-0.970	1.00	10.16
9501	O	LEU	B	464	26.362	4.164	-1.423	1.00	7.69
9502	N	VAL	B	465	25.451	5.425	0.310	1.00	9.27
9503	CA	VAL	B	465	25.548	4.251	1.189	1.00	10.70
9504	CB	VAL	B	465	26.864	4.243	2.167	1.00	10.44
9505	CG1	VAL	B	465	27.599	5.547	2.161	1.00	8.44
9506	CG2	VAL	B	465	26.567	3.850	3.521	1.00	9.38
9507	C	VAL	B	465	24.200	3.836	1.787	1.00	11.54
9508	O	VAL	B	465	23.434	4.652	2.299	1.00	11.35
9509	N	CYS	B	466	23.933	2.541	1.597	1.00	11.58
9510	CA	CYS	B	466	22.693	1.908	1.882	1.00	11.66
9511	CB	CYS	B	466	22.383	0.928	0.793	1.00	12.11
9512	SG	CYS	B	466	21.296	-0.552	1.135	1.00	16.07
9513	C	CYS	B	466	23.022	1.230	3.145	1.00	12.23
9514	O	CYS	B	466	23.949	0.364	3.201	1.00	12.50
9515	N	TYR	B	467	22.360	1.656	4.212	1.00	10.72
9516	CA	TYR	B	467	22.637	1.047	5.503	1.00	9.27
9517	CB	TYR	B	467	22.526	2.123	6.559	1.00	7.41
9518	CG	TYR	B	467	23.725	3.025	6.702	1.00	9.13
9519	CD1	TYR	B	467	23.634	4.428	6.460	1.00	9.77
9520	CE1	TYR	B	467	24.711	5.251	6.636	1.00	8.67
9521	CZ	TYR	B	467	25.886	4.685	7.063	1.00	12.20
9522	OH	TYR	B	467	26.995	5.464	7.277	1.00	13.54
9523	CE2	TYR	B	467	25.937	3.364	7.390	1.00	3.92
9524	CD2	TYR	B	467	24.890	2.564	7.197	1.00	4.42
9525	C	TYR	B	467	21.683	-0.145	5.790	1.00	8.96
9526	O	TYR	B	467	21.710	-0.704	6.869	1.00	8.68
9527	N	GLY	B	468	20.814	-0.508	4.867	1.00	8.40
9528	CA	GLY	B	468	19.809	-1.514	5.171	1.00	8.66

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9529	C	GLY	B	468	18.518	-1.341	4.419	1.00	9.18
9530	O	GLY	B	468	18.371	-0.413	3.585	1.00	11.40
9531	N	PRO	B	469	17.535	-2.183	4.661	1.00	8.82
9532	CA	PRO	B	469	17.522	-3.357	5.568	1.00	8.47
9533	CB	PRO	B	469	16.120	-3.916	5.417	1.00	8.72
9534	CG	PRO	B	469	15.342	-2.892	4.554	1.00	9.89
9535	CD	PRO	B	469	16.281	-1.938	3.966	1.00	8.31
9536	C	PRO	B	469	18.412	-4.551	5.224	1.00	8.36
9537	O	PRO	B	469	18.573	-5.480	6.041	1.00	8.44
9538	N	GLY	B	470	18.885	-4.596	3.983	1.00	8.35
9539	CA	GLY	B	470	19.801	-5.623	3.559	1.00	6.77
9540	C	GLY	B	470	21.152	-5.234	4.060	1.00	6.65
9541	O	GLY	B	470	21.325	-4.319	4.836	1.00	8.46
9542	N	ILE	B	471	22.118	-5.903	3.541	1.00	5.56
9543	CA	ILE	B	471	23.464	-5.861	3.952	1.00	5.39
9544	CB	ILE	B	471	24.155	-7.110	3.337	1.00	4.85
9545	CG1	ILE	B	471	23.491	-8.397	3.866	1.00	5.91
9546	CD1	ILE	B	471	21.971	-8.722	2.993	1.00	13.33
9547	CG2	ILE	B	471	25.634	-7.039	3.435	1.00	3.00
9548	C	ILE	B	471	23.903	-4.642	3.228	1.00	5.84
9549	O	ILE	B	471	23.704	-4.560	2.047	1.00	5.89
9550	N	PRO	B	472	24.497	-3.690	3.913	1.00	6.22
9551	CA	PRO	B	472	24.875	-2.405	3.329	1.00	6.72
9552	CB	PRO	B	472	25.813	-1.812	4.370	1.00	6.52
9553	CG	PRO	B	472	25.386	-2.375	5.582	1.00	5.65
9554	CD	PRO	B	472	24.841	-3.759	5.324	1.00	7.16
9555	C	PRO	B	472	25.667	-2.511	2.094	1.00	6.71
9556	O	PRO	B	472	26.332	-3.547	1.869	1.00	6.84
9557	N	ILE	B	473	25.618	-1.447	1.315	1.00	6.30
9558	CA	ILE	B	473	26.399	-1.351	0.097	1.00	6.43
9559	CB	ILE	B	473	25.773	-2.186	-1.054	1.00	4.87
9560	CG1	ILE	B	473	26.393	-1.867	-2.404	1.00	6.29
9561	CD1	ILE	B	473	26.548	-3.110	-3.274	1.00	5.33
9562	CG2	ILE	B	473	24.264	-2.085	-1.152	1.00	2.00
9563	C	ILE	B	473	26.655	0.113	-0.306	1.00	8.57
9564	O	ILE	B	473	25.794	0.983	-0.292	1.00	9.40
9565	N	SER	B	474	27.888	0.371	-0.667	1.00	10.01
9566	CA	SER	B	474	28.303	1.708	-0.954	1.00	10.85
9567	CB	SER	B	474	29.473	2.010	-0.033	1.00	11.38
9568	OG	SER	B	474	29.310	1.195	1.175	1.00	16.16
9569	C	SER	B	474	28.616	1.622	-2.439	1.00	10.20
9570	O	SER	B	474	29.246	0.722	-2.851	1.00	10.05
9571	N	THR	B	475	28.058	2.510	-3.219	1.00	10.14
9572	CA	THR	B	475	28.249	2.584	-4.610	1.00	11.45
9573	CB	THR	B	475	27.042	2.052	-5.320	1.00	11.76
9574	OG1	THR	B	475	25.890	2.719	-4.823	1.00	9.95
9575	CG2	THR	B	475	26.801	0.699	-4.963	1.00	10.68
9576	C	THR	B	475	28.376	4.045	-4.967	1.00	13.12
9577	O	THR	B	475	27.962	4.978	-4.187	1.00	15.96
9578	N	LEU	B	476	28.936	4.227	-6.159	1.00	12.80
9579	CA	LEU	B	476	29.428	5.517	-6.617	1.00	12.30

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9580	CB	LEU	B	476	30.899	5.345	-6.904	1.00	10.42
9581	CG	LEU	B	476	31.571	6.412	-7.705	1.00	8.74
9582	CD1	LEU	B	476	31.877	7.643	-6.842	1.00	11.03
9583	CD2	LEU	B	476	32.856	5.799	-8.158	1.00	13.97
9584	C	LEU	B	476	28.719	5.903	-7.894	1.00	11.75
9585	O	LEU	B	476	28.756	5.107	-8.791	1.00	13.17
9586	N	HIS	B	477	28.147	7.106	-7.967	1.00	11.61
9587	CA	HIS	B	477	27.208	7.549	-9.011	1.00	12.57
9588	CB	HIS	B	477	25.797	7.704	-8.373	1.00	11.95
9589	CG	HIS	B	477	25.271	6.399	-7.893	1.00	12.64
9590	ND1	HIS	B	477	25.861	5.724	-6.847	1.00	13.34
9591	CE1	HIS	B	477	25.284	4.548	-6.689	1.00	11.69
9592	NE2	HIS	B	477	24.356	4.417	-7.619	1.00	11.98
9593	CD2	HIS	B	477	24.355	5.551	-8.409	1.00	14.90
9594	C	HIS	B	477	27.628	8.876	-9.645	1.00	13.72
9595	O	HIS	B	477	28.234	9.737	-9.007	1.00	15.23
9596	N	ASP	B	478	27.319	9.025	-10.904	1.00	13.86
9597	CA	ASP	B	478	27.725	10.152	-11.711	1.00	14.61
9598	CB	ASP	B	478	27.560	9.733	-13.176	1.00	15.23
9599	CG	ASP	B	478	27.735	10.857	-14.129	1.00	17.60
9600	OD1	ASP	B	478	26.941	11.824	-14.035	1.00	18.29
9601	OD2	ASP	B	478	28.632	10.831	-14.993	1.00	19.27
9602	C	ASP	B	478	26.840	11.313	-11.403	1.00	14.35
9603	O	ASP	B	478	25.655	11.150	-11.365	1.00	14.69
9604	N	GLY	B	479	27.422	12.494	-11.208	1.00	14.25
9605	CA	GLY	B	479	26.721	13.620	-10.611	1.00	13.45
9606	C	GLY	B	479	25.593	14.096	-11.502	1.00	14.38
9607	O	GLY	B	479	24.532	14.418	-11.003	1.00	15.91
9608	N	ARG	B	480	25.801	14.076	-12.823	1.00	14.46
9609	CA	ARG	B	480	24.817	14.455	-13.842	1.00	15.12
9610	CB	ARG	B	480	25.559	14.670	-15.189	1.00	15.00
9611	CG	ARG	B	480	25.059	15.834	-16.063	1.00	16.48
9612	CD	ARG	B	480	25.692	15.963	-17.530	1.00	19.13
9613	NE	ARG	B	480	25.988	14.649	-18.172	1.00	22.66
9614	CZ	ARG	B	480	25.164	13.928	-18.955	1.00	21.49
9615	NH1	ARG	B	480	25.585	12.754	-19.429	1.00	22.68
9616	NH2	ARG	B	480	23.942	14.368	-19.294	1.00	23.98
9617	C	ARG	B	480	23.684	13.410	-14.061	1.00	14.89
9618	O	ARG	B	480	22.461	13.693	-14.028	1.00	11.93
9619	N	THR	B	481	24.125	12.195	-14.338	1.00	16.22
9620	CA	THR	B	481	23.184	11.200	-14.742	1.00	17.04
9621	CB	THR	B	481	23.862	10.266	-15.721	1.00	17.67
9622	OG1	THR	B	481	22.883	9.781	-16.616	1.00	19.10
9623	CG2	THR	B	481	24.401	9.007	-15.062	1.00	17.55
9624	C	THR	B	481	22.526	10.445	-13.625	1.00	16.12
9625	O	THR	B	481	21.431	9.979	-13.745	1.00	15.81
9626	N	ASP	B	482	23.244	10.328	-12.538	1.00	15.90
9627	CA	ASP	B	482	22.921	9.384	-11.489	1.00	15.40
9628	CB	ASP	B	482	21.448	9.552	-11.070	1.00	15.51
9629	CG	ASP	B	482	21.095	10.978	-10.571	1.00	16.02
9630	OD1	ASP	B	482	20.163	11.657	-11.097	1.00	16.75

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9631	OD2	ASP	B	482	21.658	11.482	-9.589	1.00	22.30
9632	C	ASP	B	482	23.268	7.879	-11.793	1.00	15.30
9633	O	ASP	B	482	22.836	7.060	-11.090	1.00	15.87
9634	N	GLN	B	483	24.094	7.509	-12.758	1.00	14.99
9635	CA	GLN	B	483	24.332	6.082	-13.128	1.00	14.74
9636	CB	GLN	B	483	25.009	5.922	-14.502	1.00	13.36
9637	CG	GLN	B	483	24.370	5.179	-15.622	1.00	15.32
9638	CD	GLN	B	483	25.488	4.599	-16.569	1.00	20.19
9639	OE1	GLN	B	483	25.200	3.834	-17.530	1.00	19.26
9640	NE2	GLN	B	483	26.773	4.959	-16.277	1.00	18.22
9641	C	GLN	B	483	25.357	5.556	-12.119	1.00	14.56
9642	O	GLN	B	483	26.324	6.257	-11.711	1.00	13.89
9643	N	GLU	B	484	25.191	4.319	-11.731	1.00	14.78
9644	CA	GLU	B	484	26.175	3.794	-10.866	1.00	15.24
9645	CB	GLU	B	484	25.563	2.813	-9.904	1.00	15.65
9646	CG	GLU	B	484	25.462	1.342	-10.270	1.00	18.09
9647	CD	GLU	B	484	25.499	0.548	-9.005	1.00	16.33
9648	OE1	GLU	B	484	24.452	0.299	-8.421	1.00	17.15
9649	OE2	GLU	B	484	26.608	0.318	-8.568	1.00	18.02
9650	C	GLU	B	484	27.319	3.251	-11.694	1.00	15.84
9651	O	GLU	B	484	27.112	2.489	-12.653	1.00	16.79
9652	N	ILE	B	485	28.529	3.684	-11.367	1.00	15.88
9653	CA	ILE	B	485	29.688	3.389	-12.193	1.00	15.63
9654	CB	ILE	B	485	30.307	4.692	-12.577	1.00	16.12
9655	CG1	ILE	B	485	30.831	5.427	-11.353	1.00	15.71
9656	CD1	ILE	B	485	31.054	6.938	-11.613	1.00	12.67
9657	CG2	ILE	B	485	29.206	5.604	-13.226	1.00	17.29
9658	C	ILE	B	485	30.690	2.534	-11.469	1.00	15.46
9659	O	ILE	B	485	31.681	2.144	-12.061	1.00	15.27
9660	N	LYS	B	486	30.420	2.281	-10.184	1.00	14.85
9661	CA	LYS	B	486	31.289	1.541	-9.283	1.00	14.04
9662	CB	LYS	B	486	32.562	2.343	-8.913	1.00	13.72
9663	CG	LYS	B	486	33.910	1.624	-9.245	1.00	15.14
9664	CD	LYS	B	486	35.146	2.034	-8.335	1.00	15.75
9665	CE	LYS	B	486	36.037	0.716	-7.957	1.00	21.14
9666	NZ	LYS	B	486	35.742	-0.012	-6.591	1.00	17.11
9667	C	LYS	B	486	30.527	1.128	-8.003	1.00	12.91
9668	O	LYS	B	486	29.841	1.962	-7.383	1.00	13.37
9669	N	ILE	B	487	30.639	-0.180	-7.663	1.00	12.22
9670	CA	ILE	B	487	30.366	-0.730	-6.328	1.00	10.67
9671	CB	ILE	B	487	30.319	-2.256	-6.414	1.00	10.51
9672	CG1	ILE	B	487	29.219	-2.745	-7.345	1.00	7.33
9673	CD1	ILE	B	487	27.861	-2.457	-6.914	1.00	9.20
9674	CG2	ILE	B	487	30.215	-2.869	-5.018	1.00	10.50
9675	C	ILE	B	487	31.600	-0.367	-5.550	1.00	10.78
9676	O	ILE	B	487	32.656	-0.745	-5.961	1.00	10.57
9677	N	LEU	B	488	31.518	0.371	-4.459	1.00	10.42
9678	CA	LEU	B	488	32.714	0.650	-3.639	1.00	10.64
9679	CB	LEU	B	488	32.609	2.011	-3.043	1.00	9.77
9680	CG	LEU	B	488	32.338	3.041	-4.079	1.00	8.46
9681	CD1	LEU	B	488	31.383	3.968	-3.573	1.00	3.64

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9682	CD2	LEU	B	488	33.655	3.683	-4.397	1.00	11.19
9683	C	LEU	B	488	32.853	-0.365	-2.501	1.00	11.72
9684	O	LEU	B	488	33.909	-0.910	-2.247	1.00	12.90
9685	N	GLU	B	489	31.766	-0.626	-1.805	1.00	12.41
9686	CA	GLU	B	489	31.730	-1.778	-0.916	1.00	12.09
9687	CB	GLU	B	489	31.945	-1.327	0.488	1.00	11.93
9688	CG	GLU	B	489	31.852	-2.535	1.385	1.00	11.25
9689	CD	GLU	B	489	33.132	-3.259	1.442	1.00	10.31
9690	OE1	GLU	B	489	34.018	-2.474	1.809	1.00	14.58
9691	OE2	GLU	B	489	33.240	-4.510	1.168	1.00	8.55
9692	C	GLU	B	489	30.413	-2.563	-0.942	1.00	11.92
9693	O	GLU	B	489	29.301	-2.005	-0.805	1.00	11.93
9694	N	GLU	B	490	30.580	-3.867	-0.979	1.00	11.06
9695	CA	GLU	B	490	29.520	-4.811	-1.151	1.00	11.49
9696	CB	GLU	B	490	29.928	-5.646	-2.357	1.00	11.75
9697	CG	GLU	B	490	28.863	-6.387	-3.110	1.00	11.78
9698	CD	GLU	B	490	29.227	-6.458	-4.589	1.00	16.18
9699	OE1	GLU	B	490	30.409	-6.170	-4.973	1.00	13.74
9700	OE2	GLU	B	490	28.305	-6.784	-5.353	1.00	16.62
9701	C	GLU	B	490	29.341	-5.756	0.036	1.00	11.68
9702	O	GLU	B	490	28.429	-6.625	0.016	1.00	14.21
9703	N	ASN	B	491	30.231	-5.701	1.019	1.00	11.13
9704	CA	ASN	B	491	30.251	-6.735	2.064	1.00	11.88
9705	CB	ASN	B	491	29.303	-6.271	3.130	1.00	10.84
9706	CG	ASN	B	491	29.867	-5.048	3.822	1.00	11.38
9707	OD1	ASN	B	491	29.401	-3.924	3.637	1.00	2.00
9708	ND2	ASN	B	491	30.978	-5.266	4.548	1.00	12.78
9709	C	ASN	B	491	30.074	-8.252	1.634	1.00	12.04
9710	O	ASN	B	491	29.293	-9.012	2.165	1.00	10.67
9711	N	LYS	B	492	30.710	-8.549	0.517	1.00	13.70
9712	CA	LYS	B	492	31.546	-9.712	0.292	1.00	16.11
9713	CB	LYS	B	492	33.049	-9.207	0.237	1.00	17.14
9714	CG	LYS	B	492	33.335	-7.719	-0.342	1.00	19.37
9715	CD	LYS	B	492	33.581	-7.656	-1.928	1.00	21.02
9716	CE	LYS	B	492	33.237	-6.243	-2.548	1.00	23.23
9717	NZ	LYS	B	492	33.212	-5.087	-1.573	1.00	21.40
9718	C	LYS	B	492	31.407	-10.855	1.346	1.00	16.15
9719	O	LYS	B	492	30.572	-11.794	1.209	1.00	14.68
9720	N	GLU	B	493	32.196	-10.708	2.423	1.00	16.50
9721	CA	GLU	B	493	32.448	-11.775	3.389	1.00	17.32
9722	CB	GLU	B	493	33.742	-11.534	4.167	1.00	17.86
9723	CG	GLU	B	493	34.978	-11.376	3.271	1.00	23.21
9724	CD	GLU	B	493	35.606	-9.976	3.366	1.00	27.34
9725	OE1	GLU	B	493	35.665	-9.470	4.517	1.00	27.82
9726	OE2	GLU	B	493	36.041	-9.402	2.313	1.00	28.74
9727	C	GLU	B	493	31.317	-11.832	4.340	1.00	16.14
9728	O	GLU	B	493	30.854	-12.890	4.658	1.00	16.14
9729	N	LEU	B	494	30.834	-10.689	4.774	1.00	15.55
9730	CA	LEU	B	494	29.598	-10.742	5.495	1.00	15.84
9731	CB	LEU	B	494	29.056	-9.375	5.775	1.00	14.54
9732	CG	LEU	B	494	27.994	-9.361	6.885	1.00	12.70

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9733	CD1	LEU	B	494	28.537	-10.040	8.108	1.00	7.00
9734	CD2	LEU	B	494	27.508	-7.942	7.221	1.00	6.31
9735	C	LEU	B	494	28.606	-11.609	4.718	1.00	17.25
9736	O	LEU	B	494	28.378	-12.757	5.102	1.00	18.42
9737	N	GLU	B	495	28.060	-11.140	3.595	1.00	17.98
9738	CA	GLU	B	495	27.179	-12.017	2.783	1.00	18.30
9739	CB	GLU	B	495	27.396	-11.815	1.290	1.00	18.65
9740	CG	GLU	B	495	26.314	-10.987	0.591	1.00	20.62
9741	CD	GLU	B	495	25.548	-11.727	-0.519	1.00	23.09
9742	OE1	GLU	B	495	26.083	-12.709	-1.156	1.00	21.30
9743	OE2	GLU	B	495	24.390	-11.292	-0.754	1.00	22.72
9744	C	GLU	B	495	27.403	-13.492	3.116	1.00	17.92
9745	O	GLU	B	495	26.479	-14.193	3.539	1.00	17.93
9746	N	ASN	B	496	28.661	-13.901	2.949	1.00	17.84
9747	CA	ASN	B	496	29.110	-15.308	2.994	1.00	17.77
9748	CB	ASN	B	496	30.519	-15.428	2.392	1.00	17.42
9749	CG	ASN	B	496	30.539	-15.256	0.892	1.00	19.13
9750	OD1	ASN	B	496	29.501	-15.134	0.240	1.00	20.02
9751	ND2	ASN	B	496	31.737	-15.234	0.332	1.00	21.20
9752	C	ASN	B	496	29.172	-15.918	4.399	1.00	17.85
9753	O	ASN	B	496	28.513	-16.938	4.657	1.00	18.34
9754	N	ALA	B	497	30.044	-15.334	5.241	1.00	16.93
9755	CA	ALA	B	497	30.100	-15.502	6.698	1.00	16.68
9756	CB	ALA	B	497	30.572	-14.175	7.342	1.00	16.29
9757	C	ALA	B	497	28.790	-15.898	7.352	1.00	16.36
9758	O	ALA	B	497	28.782	-16.605	8.359	1.00	17.28
9759	N	LEU	B	498	27.698	-15.461	6.736	1.00	15.67
9760	CA	LEU	B	498	26.392	-15.330	7.342	1.00	15.10
9761	CB	LEU	B	498	26.043	-13.866	7.139	1.00	14.77
9762	CG	LEU	B	498	25.017	-13.204	7.997	1.00	15.97
9763	CD1	LEU	B	498	25.493	-13.166	9.465	1.00	14.73
9764	CD2	LEU	B	498	24.760	-11.781	7.382	1.00	18.70
9765	C	LEU	B	498	25.251	-16.193	6.747	1.00	14.98
9766	O	LEU	B	498	24.111	-16.095	7.199	1.00	15.15
9767	N	LYS	B	499	25.513	-17.002	5.728	1.00	14.64
9768	CA	LYS	B	499	24.471	-17.944	5.300	1.00	15.30
9769	CB	LYS	B	499	24.333	-18.034	3.762	1.00	16.06
9770	CG	LYS	B	499	25.455	-17.390	2.868	1.00	17.72
9771	CD	LYS	B	499	26.248	-18.458	2.047	1.00	18.94
9772	CE	LYS	B	499	25.321	-19.348	1.193	1.00	19.39
9773	NZ	LYS	B	499	24.695	-20.453	1.996	1.00	17.53
9774	C	LYS	B	499	24.578	-19.350	6.021	1.00	15.11
9775	O	LYS	B	499	23.754	-20.241	5.840	1.00	15.21
9776	N	ASN	B	500	25.605	-19.513	6.843	1.00	14.78
9777	CA	ASN	B	500	25.542	-20.337	8.039	1.00	15.11
9778	CB	ASN	B	500	26.836	-20.103	8.828	1.00	15.09
9779	CG	ASN	B	500	27.262	-21.316	9.612	1.00	17.83
9780	OD1	ASN	B	500	27.334	-22.482	9.082	1.00	18.91
9781	ND2	ASN	B	500	27.544	-21.081	10.889	1.00	17.81
9782	C	ASN	B	500	24.367	-19.990	8.990	1.00	15.24
9783	O	ASN	B	500	23.738	-20.868	9.605	1.00	15.93

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9784	N	ILE	B	501	24.069	-18.697	9.088	1.00	14.30
9785	CA	ILE	B	501	23.490	-18.129	10.283	1.00	13.81
9786	CB	ILE	B	501	24.282	-16.796	10.578	1.00	13.73
9787	CG1	ILE	B	501	25.777	-17.058	10.814	1.00	13.33
9788	CD1	ILE	B	501	26.147	-18.154	11.867	1.00	10.91
9789	CG2	ILE	B	501	23.735	-16.021	11.727	1.00	12.43
9790	C	ILE	B	501	21.948	-17.926	10.253	1.00	14.11
9791	O	ILE	B	501	21.412	-17.106	9.512	1.00	15.33
9792	N	GLN	B	502	21.246	-18.692	11.077	1.00	13.45
9793	CA	GLN	B	502	19.819	-18.481	11.357	1.00	13.28
9794	CB	GLN	B	502	19.366	-19.493	12.433	1.00	12.57
9795	CG	GLN	B	502	19.230	-20.974	11.899	1.00	15.33
9796	CD	GLN	B	502	19.211	-22.059	13.000	1.00	15.26
9797	OE1	GLN	B	502	19.921	-21.917	14.020	1.00	17.49
9798	NE2	GLN	B	502	18.408	-23.118	12.803	1.00	12.93
9799	C	GLN	B	502	19.491	-17.092	11.868	1.00	12.51
9800	O	GLN	B	502	19.430	-16.898	13.076	1.00	13.65
9801	N	LEU	B	503	19.208	-16.134	11.010	1.00	11.71
9802	CA	LEU	B	503	18.871	-14.757	11.513	1.00	11.49
9803	CB	LEU	B	503	19.345	-13.726	10.495	1.00	11.05
9804	CG	LEU	B	503	20.582	-12.836	10.652	1.00	11.70
9805	CD1	LEU	B	503	21.766	-13.410	11.435	1.00	12.29
9806	CD2	LEU	B	503	21.047	-12.326	9.234	1.00	13.12
9807	C	LEU	B	503	17.359	-14.523	11.798	1.00	11.41
9808	O	LEU	B	503	16.518	-14.905	11.020	1.00	12.37
9809	N	PRO	B	504	16.971	-13.874	12.872	1.00	11.59
9810	CA	PRO	B	504	15.557	-13.610	13.098	1.00	12.00
9811	CB	PRO	B	504	15.576	-12.799	14.377	1.00	11.18
9812	CG	PRO	B	504	16.855	-12.143	14.341	1.00	10.07
9813	CD	PRO	B	504	17.755	-13.265	13.951	1.00	11.98
9814	C	PRO	B	504	15.008	-12.725	12.055	1.00	12.65
9815	O	PRO	B	504	15.742	-12.093	11.343	1.00	12.51
9816	N	LYS	B	505	13.700	-12.654	11.999	1.00	14.26
9817	CA	LYS	B	505	13.009	-11.857	10.991	1.00	16.31
9818	CB	LYS	B	505	11.800	-12.678	10.462	1.00	16.79
9819	CG	LYS	B	505	10.598	-11.892	9.799	1.00	19.99
9820	CD	LYS	B	505	10.709	-11.686	8.256	1.00	23.62
9821	CE	LYS	B	505	9.338	-11.794	7.535	1.00	26.46
9822	NZ	LYS	B	505	8.250	-12.460	8.354	1.00	27.24
9823	C	LYS	B	505	12.606	-10.501	11.594	1.00	16.05
9824	O	LYS	B	505	12.012	-10.443	12.681	1.00	16.02
9825	N	GLU	B	506	12.961	-9.414	10.924	1.00	16.29
9826	CA	GLU	B	506	12.386	-8.099	11.297	1.00	17.95
9827	CB	GLU	B	506	13.273	-6.973	10.819	1.00	17.97
9828	CG	GLU	B	506	14.752	-7.170	11.194	1.00	22.91
9829	CD	GLU	B	506	15.640	-5.961	10.879	1.00	29.48
9830	OE1	GLU	B	506	15.843	-5.660	9.625	1.00	36.89
9831	OE2	GLU	B	506	16.144	-5.335	11.867	1.00	23.97
9832	C	GLU	B	506	11.032	-7.949	10.628	1.00	17.33
9833	O	GLU	B	506	10.873	-8.438	9.506	1.00	18.09
9834	N	GLU	B	507	10.059	-7.331	11.295	1.00	16.41

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9835	CA	GLU	B	507	8.879	-6.743	10.595	1.00	16.37
9836	CB	GLU	B	507	7.493	-7.494	10.940	1.00	17.18
9837	CG	GLU	B	507	6.118	-6.686	10.761	1.00	23.75
9838	CD	GLU	B	507	4.778	-7.517	10.402	1.00	30.75
9839	OE1	GLU	B	507	3.672	-6.887	10.148	1.00	28.45
9840	OE2	GLU	B	507	4.807	-8.798	10.363	1.00	34.41
9841	C	GLU	B	507	8.892	-5.246	10.903	1.00	14.00
9842	O	GLU	B	507	9.127	-4.861	11.986	1.00	15.08
9843	N	ILE	B	508	8.713	-4.370	9.956	1.00	12.69
9844	CA	ILE	B	508	8.361	-3.019	10.315	1.00	11.90
9845	CB	ILE	B	508	9.383	-2.025	9.642	1.00	12.69
9846	CG1	ILE	B	508	10.759	-2.220	10.259	1.00	11.41
9847	CD1	ILE	B	508	11.965	-1.589	9.450	1.00	11.30
9848	CG2	ILE	B	508	8.988	-0.554	9.791	1.00	9.18
9849	C	ILE	B	508	6.880	-2.728	10.000	1.00	12.88
9850	O	ILE	B	508	6.441	-2.876	8.842	1.00	12.87
9851	N	LYS	B	509	6.094	-2.342	11.011	1.00	12.69
9852	CA	LYS	B	509	4.664	-2.104	10.796	1.00	14.13
9853	CB	LYS	B	509	3.833	-3.419	10.941	1.00	13.01
9854	CG	LYS	B	509	2.307	-3.442	10.275	1.00	19.47
9855	CD	LYS	B	509	2.041	-2.991	8.703	1.00	17.91
9856	CE	LYS	B	509	1.909	-1.434	8.488	1.00	16.98
9857	NZ	LYS	B	509	1.814	-0.986	7.022	1.00	17.64
9858	C	LYS	B	509	4.187	-0.982	11.693	1.00	14.11
9859	O	LYS	B	509	4.981	-0.365	12.337	1.00	13.55
9860	N	LYS	B	510	2.884	-0.686	11.676	1.00	15.06
9861	CA	LYS	B	510	2.314	0.370	12.496	1.00	14.51
9862	CB	LYS	B	510	2.117	1.657	11.659	1.00	14.17
9863	CG	LYS	B	510	0.862	1.727	10.795	1.00	14.33
9864	CD	LYS	B	510	1.125	2.165	9.327	1.00	17.47
9865	CE	LYS	B	510	-0.133	2.680	8.565	1.00	19.66
9866	NZ	LYS	B	510	-1.089	1.537	8.432	1.00	23.78
9867	C	LYS	B	510	1.008	-0.065	13.208	1.00	15.54
9868	O	LYS	B	510	0.266	-0.947	12.731	1.00	13.83
9869	N	LEU	B	511	0.814	0.564	14.381	1.00	16.36
9870	CA	LEU	B	511	-0.384	0.546	15.195	1.00	17.37
9871	CB	LEU	B	511	0.032	0.279	16.646	1.00	16.95
9872	CG	LEU	B	511	0.812	-1.037	17.016	1.00	17.49
9873	CD1	LEU	B	511	0.830	-1.337	18.487	1.00	14.37
9874	CD2	LEU	B	511	0.231	-2.247	16.357	1.00	11.75
9875	C	LEU	B	511	-0.983	1.938	15.117	1.00	18.27
9876	O	LEU	B	511	-0.240	2.869	15.150	1.00	18.01
9877	N	GLU	B	512	-2.289	2.061	14.907	1.00	20.68
9878	CA	GLU	B	512	-3.071	3.274	15.175	1.00	23.94
9879	CB	GLU	B	512	-4.112	3.592	14.060	1.00	24.92
9880	CG	GLU	B	512	-3.627	4.434	12.862	1.00	29.62
9881	CD	GLU	B	512	-2.753	3.620	11.889	1.00	35.28
9882	OE1	GLU	B	512	-2.088	4.223	10.981	1.00	37.74
9883	OE2	GLU	B	512	-2.716	2.356	12.060	1.00	36.59
9884	C	GLU	B	512	-3.879	2.957	16.403	1.00	25.20
9885	O	GLU	B	512	-4.633	1.979	16.439	1.00	25.68

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9886	N	VAL	B	513	-3.770	3.767	17.425	1.00	27.39
9887	CA	VAL	B	513	-4.367	3.378	18.691	1.00	28.87
9888	CB	VAL	B	513	-3.370	2.524	19.528	1.00	28.66
9889	CG1	VAL	B	513	-2.306	3.350	20.037	1.00	27.65
9890	CG2	VAL	B	513	-4.077	1.812	20.698	1.00	28.02
9891	C	VAL	B	513	-4.923	4.551	19.463	1.00	30.14
9892	O	VAL	B	513	-5.341	4.416	20.611	1.00	31.09
9893	N	ASP	B	514	-4.958	5.711	18.844	1.00	30.92
9894	CA	ASP	B	514	-6.127	6.569	19.055	1.00	30.26
9895	CB	ASP	B	514	-5.981	7.430	20.334	1.00	30.54
9896	CG	ASP	B	514	-6.921	7.038	21.442	1.00	27.74
9897	OD1	ASP	B	514	-7.932	6.351	21.207	1.00	31.32
9898	OD2	ASP	B	514	-6.742	7.416	22.609	1.00	28.03
9899	C	ASP	B	514	-6.125	7.402	17.783	1.00	30.59
9900	O	ASP	B	514	-6.153	6.876	16.663	1.00	30.14
9901	N	GLU	B	515	-5.982	8.698	17.962	1.00	30.35
9902	CA	GLU	B	515	-5.630	9.545	16.876	1.00	30.43
9903	CB	GLU	B	515	-5.985	11.019	17.257	1.00	31.33
9904	CG	GLU	B	515	-5.437	11.566	18.646	1.00	35.64
9905	CD	GLU	B	515	-6.117	11.067	19.990	1.00	36.21
9906	OE1	GLU	B	515	-7.317	11.457	20.267	1.00	32.62
9907	OE2	GLU	B	515	-5.405	10.347	20.796	1.00	32.25
9908	C	GLU	B	515	-4.152	9.228	16.625	1.00	28.80
9909	O	GLU	B	515	-3.621	9.504	15.571	1.00	29.92
9910	N	ILE	B	516	-3.491	8.550	17.558	1.00	26.78
9911	CA	ILE	B	516	-2.033	8.406	17.441	1.00	25.04
9912	CB	ILE	B	516	-1.380	8.607	18.846	1.00	25.29
9913	CG1	ILE	B	516	-1.314	10.108	19.141	1.00	26.06
9914	CD1	ILE	B	516	-1.957	10.439	20.471	1.00	29.33
9915	CG2	ILE	B	516	0.011	8.037	18.897	1.00	24.83
9916	C	ILE	B	516	-1.429	7.159	16.726	1.00	23.36
9917	O	ILE	B	516	-1.743	5.971	17.064	1.00	22.41
9918	N	THR	B	517	-0.517	7.443	15.758	1.00	20.34
9919	CA	THR	B	517	0.067	6.303	15.056	1.00	17.46
9920	CB	THR	B	517	-0.272	6.276	13.504	1.00	17.82
9921	OG1	THR	B	517	0.728	5.548	12.777	1.00	16.65
9922	CG2	THR	B	517	-0.580	7.721	12.859	1.00	17.26
9923	C	THR	B	517	1.479	5.929	15.543	1.00	16.69
9924	O	THR	B	517	2.355	6.789	15.861	1.00	14.21
9925	N	LEU	B	518	1.631	4.613	15.738	1.00	14.45
9926	CA	LEU	B	518	2.793	4.064	16.394	1.00	12.35
9927	CB	LEU	B	518	2.379	3.354	17.647	1.00	11.84
9928	CG	LEU	B	518	2.436	3.998	19.035	1.00	10.07
9929	CD1	LEU	B	518	2.317	5.492	19.081	1.00	10.92
9930	CD2	LEU	B	518	1.337	3.406	19.761	1.00	8.04
9931	C	LEU	B	518	3.572	3.114	15.528	1.00	11.82
9932	O	LEU	B	518	3.145	1.979	15.323	1.00	11.72
9933	N	TRP	B	519	4.774	3.534	15.080	1.00	12.27
9934	CA	TRP	B	519	5.522	2.694	14.169	1.00	12.18
9935	CB	TRP	B	519	6.376	3.559	13.301	1.00	12.60
9936	CG	TRP	B	519	5.655	4.056	12.221	1.00	11.07

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9937	CD1	TRP	B	519	4.999	5.260	12.136	1.00	8.45
9938	NE1	TRP	B	519	4.353	5.341	10.929	1.00	8.58
9939	CE2	TRP	B	519	4.617	4.204	10.225	1.00	9.97
9940	CD2	TRP	B	519	5.428	3.374	11.032	1.00	9.04
9941	CE3	TRP	B	519	5.833	2.143	10.548	1.00	4.86
9942	CZ3	TRP	B	519	5.471	1.796	9.370	1.00	8.18
9943	CH2	TRP	B	519	4.704	2.632	8.567	1.00	10.02
9944	CZ2	TRP	B	519	4.259	3.859	8.988	1.00	8.62
9945	C	TRP	B	519	6.390	1.818	14.991	1.00	12.46
9946	O	TRP	B	519	7.065	2.340	15.884	1.00	13.76
9947	N	TYR	B	520	6.360	0.517	14.751	1.00	10.77
9948	CA	TYR	B	520	7.251	-0.379	15.460	1.00	11.57
9949	CB	TYR	B	520	6.435	-1.285	16.414	1.00	11.72
9950	CG	TYR	B	520	5.404	-2.268	15.784	1.00	10.29
9951	CD1	TYR	B	520	5.741	-3.588	15.549	1.00	9.22
9952	CE1	TYR	B	520	4.778	-4.515	15.027	1.00	7.42
9953	CZ	TYR	B	520	3.540	-4.089	14.739	1.00	6.46
9954	OH	TYR	B	520	2.646	-5.007	14.253	1.00	10.72
9955	CE2	TYR	B	520	3.180	-2.714	14.969	1.00	6.27
9956	CD2	TYR	B	520	4.074	-1.861	15.491	1.00	8.37
9957	C	TYR	B	520	8.144	-1.283	14.567	1.00	11.37
9958	O	TYR	B	520	7.951	-1.410	13.373	1.00	11.96
9959	N	LYS	B	521	9.136	-1.896	15.180	1.00	10.90
9960	CA	LYS	B	521	9.952	-2.900	14.546	1.00	9.47
9961	CB	LYS	B	521	11.411	-2.419	14.385	1.00	8.64
9962	CG	LYS	B	521	12.461	-3.546	14.251	1.00	5.27
9963	CD	LYS	B	521	13.334	-3.489	13.013	1.00	7.38
9964	CE	LYS	B	521	14.638	-2.548	13.207	1.00	9.90
9965	NZ	LYS	B	521	15.524	-2.414	11.918	1.00	11.58
9966	C	LYS	B	521	9.839	-4.023	15.539	1.00	9.35
9967	O	LYS	B	521	9.845	-3.768	16.722	1.00	11.08
9968	N	MET	B	522	9.711	-5.247	15.073	1.00	10.11
9969	CA	MET	B	522	9.527	-6.393	15.912	1.00	9.82
9970	CB	MET	B	522	8.184	-6.903	15.621	1.00	8.39
9971	CG	MET	B	522	7.929	-8.316	16.196	1.00	8.16
9972	SD	MET	B	522	6.247	-8.531	16.974	1.00	8.46
9973	CE	MET	B	522	6.199	-7.053	17.961	1.00	3.08
9974	C	MET	B	522	10.505	-7.431	15.420	1.00	11.52
9975	O	MET	B	522	10.469	-7.740	14.214	1.00	11.92
9976	N	ILE	B	523	11.375	-7.964	16.290	1.00	11.49
9977	CA	ILE	B	523	12.235	-9.025	15.854	1.00	12.75
9978	CB	ILE	B	523	13.628	-8.856	16.354	1.00	12.97
9979	CG1	ILE	B	523	14.124	-7.357	16.346	1.00	12.53
9980	CD1	ILE	B	523	13.932	-6.678	15.067	1.00	15.00
9981	CG2	ILE	B	523	14.580	-9.792	15.584	1.00	12.17
9982	C	ILE	B	523	11.677	-10.332	16.350	1.00	14.37
9983	O	ILE	B	523	11.199	-10.380	17.464	1.00	15.97
9984	N	LEU	B	524	11.749	-11.383	15.537	1.00	14.91
9985	CA	LEU	B	524	11.114	-12.675	15.832	1.00	16.82
9986	CB	LEU	B	524	9.957	-13.034	14.876	1.00	15.65
9987	CG	LEU	B	524	8.915	-11.928	14.773	1.00	16.08

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
9988	CD1	LEU	B	524	7.849	-12.294	13.725	1.00	14.58
9989	CD2	LEU	B	524	8.285	-11.572	16.155	1.00	15.10
9990	C	LEU	B	524	12.111	-13.729	15.593	1.00	17.82
9991	O	LEU	B	524	12.925	-13.570	14.699	1.00	18.80
9992	N	PRO	B	525	12.070	-14.803	16.368	1.00	18.19
9993	CA	PRO	B	525	13.093	-15.841	16.244	1.00	18.78
9994	CB	PRO	B	525	12.916	-16.633	17.541	1.00	18.49
9995	CG	PRO	B	525	12.125	-15.738	18.405	1.00	17.11
9996	CD	PRO	B	525	11.150	-15.104	17.480	1.00	18.22
9997	C	PRO	B	525	12.837	-16.665	14.980	1.00	19.47
9998	O	PRO	B	525	11.695	-16.634	14.516	1.00	20.06
9999	N	PRO	B	526	13.848	-17.309	14.375	1.00	20.05
10000	CA	PRO	B	526	13.589	-18.033	13.120	1.00	20.40
10001	CB	PRO	B	526	15.001	-18.460	12.629	1.00	20.78
10002	CG	PRO	B	526	15.999	-17.763	13.496	1.00	19.34
10003	CD	PRO	B	526	15.264	-17.436	14.796	1.00	19.62
10004	C	PRO	B	526	12.680	-19.187	13.531	1.00	20.54
10005	O	PRO	B	526	12.683	-19.449	14.705	1.00	20.28
10006	N	GLN	B	527	11.847	-19.758	12.675	1.00	20.81
10007	CA	GLN	B	527	10.892	-20.760	13.153	1.00	21.27
10008	CB	GLN	B	527	11.671	-21.994	13.665	1.00	21.80
10009	CG	GLN	B	527	12.583	-22.686	12.586	1.00	23.23
10010	CD	GLN	B	527	14.096	-22.522	12.888	1.00	25.10
10011	OE1	GLN	B	527	14.627	-21.378	12.938	1.00	25.04
10012	NE2	GLN	B	527	14.779	-23.652	13.111	1.00	22.46
10013	C	GLN	B	527	9.909	-20.236	14.238	1.00	20.89
10014	O	GLN	B	527	9.322	-21.012	15.012	1.00	20.42
10015	N	PHE	B	528	9.725	-18.915	14.267	1.00	20.37
10016	CA	PHE	B	528	8.734	-18.252	15.107	1.00	20.15
10017	CB	PHE	B	528	8.723	-16.762	14.838	1.00	20.86
10018	CG	PHE	B	528	7.376	-16.094	15.095	1.00	22.64
10019	CD1	PHE	B	528	6.970	-15.786	16.413	1.00	23.33
10020	CE1	PHE	B	528	5.752	-15.138	16.674	1.00	23.31
10021	CZ	PHE	B	528	4.913	-14.778	15.597	1.00	24.23
10022	CE2	PHE	B	528	5.316	-15.082	14.267	1.00	24.89
10023	CD2	PHE	B	528	6.538	-15.731	14.032	1.00	23.70
10024	C	PHE	B	528	7.382	-18.741	14.727	1.00	19.39
10025	O	PHE	B	528	7.019	-18.626	13.571	1.00	18.80
10026	N	ASP	B	529	6.638	-19.232	15.712	1.00	19.43
10027	CA	ASP	B	529	5.419	-19.963	15.493	1.00	19.03
10028	CB	ASP	B	529	5.656	-21.452	15.847	1.00	19.12
10029	CG	ASP	B	529	4.370	-22.238	16.048	1.00	19.74
10030	OD1	ASP	B	529	3.507	-22.179	15.162	1.00	16.92
10031	OD2	ASP	B	529	4.168	-22.979	17.049	1.00	20.99
10032	C	ASP	B	529	4.418	-19.278	16.400	1.00	19.09
10033	O	ASP	B	529	4.492	-19.399	17.636	1.00	18.30
10034	N	ARG	B	530	3.465	-18.579	15.776	1.00	19.83
10035	CA	ARG	B	530	2.618	-17.612	16.500	1.00	20.01
10036	CB	ARG	B	530	1.933	-16.638	15.530	1.00	19.94
10037	CG	ARG	B	530	0.509	-16.229	15.941	1.00	21.85
10038	CD	ARG	B	530	-0.454	-16.040	14.760	1.00	27.51

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10039	NE	ARG	B	530	-1.170	-14.768	14.888	1.00	31.50
10040	CZ	ARG	B	530	-0.831	-13.626	14.261	1.00	34.57
10041	NH1	ARG	B	530	-1.529	-12.517	14.487	1.00	35.96
10042	NH2	ARG	B	530	0.199	-13.574	13.412	1.00	34.68
10043	C	ARG	B	530	1.587	-18.234	17.456	1.00	19.87
10044	O	ARG	B	530	1.140	-17.558	18.372	1.00	19.93
10045	N	SER	B	531	1.230	-19.509	17.252	1.00	19.71
10046	CA	SER	B	531	0.403	-20.243	18.234	1.00	19.95
10047	CB	SER	B	531	0.091	-21.625	17.723	1.00	19.66
10048	OG	SER	B	531	0.677	-21.796	16.446	1.00	19.29
10049	C	SER	B	531	1.037	-20.338	19.629	1.00	20.10
10050	O	SER	B	531	0.422	-19.947	20.617	1.00	20.68
10051	N	LYS	B	532	2.272	-20.840	19.704	1.00	20.36
10052	CA	LYS	B	532	3.130	-20.726	20.923	1.00	19.69
10053	CB	LYS	B	532	4.527	-21.391	20.695	1.00	19.26
10054	CG	LYS	B	532	4.436	-22.913	20.215	1.00	20.16
10055	CD	LYS	B	532	5.782	-23.609	19.748	1.00	18.68
10056	CE	LYS	B	532	5.940	-25.091	20.330	1.00	19.30
10057	NZ	LYS	B	532	5.533	-26.263	19.455	1.00	16.70
10058	C	LYS	B	532	3.248	-19.233	21.338	1.00	19.44
10059	O	LYS	B	532	3.096	-18.328	20.499	1.00	19.45
10060	N	LYS	B	533	3.475	-18.994	22.636	1.00	19.39
10061	CA	LYS	B	533	3.522	-17.655	23.241	1.00	18.77
10062	CB	LYS	B	533	2.562	-17.543	24.441	1.00	18.52
10063	CG	LYS	B	533	1.129	-17.104	24.095	1.00	19.72
10064	CD	LYS	B	533	0.132	-17.161	25.285	1.00	22.26
10065	CE	LYS	B	533	-1.131	-16.296	25.028	1.00	23.87
10066	NZ	LYS	B	533	-1.055	-14.946	25.722	1.00	26.56
10067	C	LYS	B	533	4.947	-17.342	23.687	1.00	18.14
10068	O	LYS	B	533	5.647	-18.160	24.228	1.00	18.73
10069	N	TYR	B	534	5.375	-16.114	23.481	1.00	17.66
10070	CA	TYR	B	534	6.799	-15.839	23.419	1.00	16.82
10071	CB	TYR	B	534	7.247	-15.388	21.994	1.00	16.93
10072	CG	TYR	B	534	7.502	-16.517	21.019	1.00	18.86
10073	CD1	TYR	B	534	6.507	-16.903	20.083	1.00	20.65
10074	CE1	TYR	B	534	6.693	-17.968	19.198	1.00	16.16
10075	CZ	TYR	B	534	7.867	-18.694	19.210	1.00	18.74
10076	OH	TYR	B	534	7.994	-19.774	18.292	1.00	19.54
10077	CE2	TYR	B	534	8.877	-18.363	20.136	1.00	19.53
10078	CD2	TYR	B	534	8.682	-17.267	21.046	1.00	20.65
10079	C	TYR	B	534	7.102	-14.760	24.504	1.00	15.81
10080	O	TYR	B	534	6.285	-13.892	24.739	1.00	15.34
10081	N	PRO	B	535	8.276	-14.845	25.137	1.00	13.83
10082	CA	PRO	B	535	8.724	-13.803	26.057	1.00	12.84
10083	CB	PRO	B	535	10.017	-14.409	26.685	1.00	12.36
10084	CG	PRO	B	535	10.488	-15.483	25.755	1.00	12.61
10085	CD	PRO	B	535	9.308	-15.899	24.933	1.00	13.49
10086	C	PRO	B	535	8.985	-12.564	25.237	1.00	11.94
10087	O	PRO	B	535	9.529	-12.669	24.136	1.00	11.38
10088	N	LEU	B	536	8.539	-11.414	25.703	1.00	12.08
10089	CA	LEU	B	536	8.760	-10.142	24.966	1.00	10.91

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10090	CB	LEU	B	536	7.439	-9.386	24.854	1.00	10.46
10091	CG	LEU	B	536	7.593	-7.928	24.343	1.00	8.67
10092	CD1	LEU	B	536	8.403	-7.879	23.065	1.00	5.57
10093	CD2	LEU	B	536	6.288	-7.252	24.174	1.00	2.00
10094	C	LEU	B	536	9.736	-9.173	25.592	1.00	10.97
10095	O	LEU	B	536	9.467	-8.652	26.672	1.00	13.54
10096	N	LEU	B	537	10.820	-8.838	24.916	1.00	10.08
10097	CA	LEU	B	537	11.650	-7.676	25.319	1.00	8.26
10098	CB	LEU	B	537	13.097	-7.974	25.017	1.00	8.06
10099	CG	LEU	B	537	14.051	-6.800	25.284	1.00	4.88
10100	CD1	LEU	B	537	14.036	-6.376	26.728	1.00	2.00
10101	CD2	LEU	B	537	15.453	-7.238	24.994	1.00	10.15
10102	C	LEU	B	537	11.387	-6.438	24.499	1.00	8.12
10103	O	LEU	B	537	11.330	-6.536	23.294	1.00	9.15
10104	N	ILE	B	538	11.347	-5.268	25.095	1.00	7.38
10105	CA	ILE	B	538	11.195	-4.029	24.401	1.00	7.93
10106	CB	ILE	B	538	10.179	-3.163	25.174	1.00	7.10
10107	CG1	ILE	B	538	8.817	-3.800	25.203	1.00	6.25
10108	CD1	ILE	B	538	8.424	-4.493	23.799	1.00	3.01
10109	CG2	ILE	B	538	9.977	-1.857	24.531	1.00	3.91
10110	C	ILE	B	538	12.490	-3.314	24.517	1.00	10.61
10111	O	ILE	B	538	13.049	-3.255	25.626	1.00	13.40
10112	N	GLN	B	539	12.971	-2.688	23.433	1.00	11.71
10113	CA	GLN	B	539	14.135	-1.841	23.553	1.00	11.06
10114	CB	GLN	B	539	15.291	-2.334	22.590	1.00	9.61
10115	CG	GLN	B	539	16.410	-1.239	22.320	1.00	6.91
10116	CD	GLN	B	539	17.581	-1.745	21.555	1.00	4.14
10117	OE1	GLN	B	539	18.200	-2.594	22.015	1.00	5.97
10118	NE2	GLN	B	539	17.969	-1.121	20.496	1.00	2.42
10119	C	GLN	B	539	13.675	-0.387	23.296	1.00	12.89
10120	O	GLN	B	539	13.156	-0.120	22.261	1.00	14.04
10121	N	VAL	B	540	13.975	0.545	24.189	1.00	14.94
10122	CA	VAL	B	540	13.472	1.909	24.138	1.00	15.55
10123	CB	VAL	B	540	12.400	2.114	25.217	1.00	17.22
10124	CG1	VAL	B	540	13.037	1.921	26.606	1.00	16.10
10125	CG2	VAL	B	540	11.718	3.473	25.110	1.00	16.70
10126	C	VAL	B	540	14.582	2.964	24.292	1.00	16.33
10127	O	VAL	B	540	15.706	2.731	24.828	1.00	18.55
10128	N	TYR	B	541	14.347	4.076	23.630	1.00	14.88
10129	CA	TYR	B	541	15.183	5.242	23.728	1.00	12.81
10130	CB	TYR	B	541	16.026	5.449	22.457	1.00	13.66
10131	CG	TYR	B	541	16.903	6.685	22.586	1.00	14.22
10132	CD1	TYR	B	541	17.943	6.734	23.468	1.00	12.24
10133	CE1	TYR	B	541	18.750	7.887	23.580	1.00	14.88
10134	CZ	TYR	B	541	18.415	8.986	22.925	1.00	14.91
10135	OH	TYR	B	541	19.117	10.127	22.994	1.00	21.93
10136	CE2	TYR	B	541	17.405	8.930	22.044	1.00	17.45
10137	CD2	TYR	B	541	16.646	7.787	21.882	1.00	16.01
10138	C	TYR	B	541	14.168	6.300	23.974	1.00	12.33
10139	O	TYR	B	541	13.747	6.520	25.130	1.00	13.46
10140	N	GLY	B	542	13.637	6.854	22.910	1.00	10.00

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10141	CA	GLY	B	542	12.491	7.686	23.048	1.00	9.59
10142	C	GLY	B	542	12.789	9.163	23.242	1.00	9.30
10143	O	GLY	B	542	11.853	9.885	23.441	1.00	9.25
10144	N	GLY	B	543	14.007	9.653	23.024	1.00	8.29
10145	CA	GLY	B	543	14.260	11.069	23.192	1.00	9.22
10146	C	GLY	B	543	13.538	12.018	22.218	1.00	10.27
10147	O	GLY	B	543	13.383	11.726	21.058	1.00	11.13
10148	N	PRO	B	544	13.222	13.200	22.657	1.00	11.61
10149	CA	PRO	B	544	12.790	14.289	21.748	1.00	11.74
10150	CB	PRO	B	544	12.864	15.536	22.606	1.00	10.90
10151	CG	PRO	B	544	12.842	15.079	23.963	1.00	13.27
10152	CD	PRO	B	544	13.296	13.594	24.048	1.00	10.89
10153	C	PRO	B	544	13.706	14.411	20.477	1.00	13.57
10154	O	PRO	B	544	14.983	14.296	20.562	1.00	14.88
10155	N	CYS	B	545	13.055	14.444	19.308	1.00	10.94
10156	CA	CYS	B	545	13.675	14.284	18.020	1.00	10.85
10157	CB	CYS	B	545	14.671	15.435	17.882	1.00	10.89
10158	SG	CYS	B	545	14.162	16.992	18.655	1.00	12.64
10159	C	CYS	B	545	14.334	12.899	17.558	1.00	10.33
10160	O	CYS	B	545	14.926	12.814	16.522	1.00	7.83
10161	N	SER	B	546	14.163	11.794	18.255	1.00	11.78
10162	CA	SER	B	546	14.831	10.560	17.807	1.00	11.61
10163	CB	SER	B	546	15.235	9.663	18.987	1.00	11.62
10164	OG	SER	B	546	14.103	8.904	19.580	1.00	12.09
10165	C	SER	B	546	13.920	9.800	16.883	1.00	11.73
10166	O	SER	B	546	12.744	10.160	16.677	1.00	12.52
10167	N	GLN	B	547	14.476	8.751	16.304	1.00	12.43
10168	CA	GLN	B	547	13.708	7.744	15.670	1.00	13.79
10169	CB	GLN	B	547	13.521	8.118	14.213	1.00	14.32
10170	CG	GLN	B	547	12.987	6.937	13.357	1.00	8.09
10171	CD	GLN	B	547	12.711	7.313	11.978	1.00	3.34
10172	OE1	GLN	B	547	11.542	7.553	11.546	1.00	9.75
10173	NE2	GLN	B	547	13.758	7.396	11.241	1.00	10.32
10174	C	GLN	B	547	14.481	6.412	15.790	1.00	15.87
10175	O	GLN	B	547	15.576	6.226	15.241	1.00	17.04
10176	N	SER	B	548	13.851	5.454	16.412	1.00	16.80
10177	CA	SER	B	548	14.465	4.199	16.678	1.00	17.13
10178	CB	SER	B	548	14.281	3.864	18.184	1.00	18.44
10179	OG	SER	B	548	14.996	4.894	18.941	1.00	22.67
10180	C	SER	B	548	13.945	3.138	15.776	1.00	17.08
10181	O	SER	B	548	14.533	2.065	15.690	1.00	18.25
10182	N	VAL	B	549	12.860	3.437	15.068	1.00	17.09
10183	CA	VAL	B	549	12.381	2.496	14.043	1.00	16.73
10184	CB	VAL	B	549	10.917	2.222	14.129	1.00	17.68
10185	CG1	VAL	B	549	10.520	1.211	13.056	1.00	13.94
10186	CG2	VAL	B	549	10.548	1.766	15.539	1.00	12.13
10187	C	VAL	B	549	12.754	2.995	12.666	1.00	17.42
10188	O	VAL	B	549	12.249	4.045	12.172	1.00	17.82
10189	N	ARG	B	550	13.627	2.192	12.069	1.00	17.42
10190	CA	ARG	B	550	14.465	2.546	10.936	1.00	17.26
10191	CB	ARG	B	550	15.784	3.170	11.420	1.00	17.42

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10192	CG	ARG	B	550	15.724	4.659	11.616	1.00	20.00
10193	CD	ARG	B	550	16.743	5.182	12.570	1.00	24.78
10194	NE	ARG	B	550	16.677	6.656	12.605	1.00	31.97
10195	CZ	ARG	B	550	17.402	7.435	13.448	1.00	31.52
10196	NH1	ARG	B	550	17.292	8.771	13.440	1.00	27.91
10197	NH2	ARG	B	550	18.257	6.858	14.294	1.00	33.90
10198	C	ARG	B	550	14.850	1.315	10.170	1.00	16.79
10199	O	ARG	B	550	15.184	0.259	10.728	1.00	15.40
10200	N	SER	B	551	14.911	1.458	8.867	1.00	16.11
10201	CA	SER	B	551	15.224	0.296	8.034	1.00	15.40
10202	CB	SER	B	551	14.601	0.450	6.658	1.00	14.24
10203	OG	SER	B	551	13.242	0.793	6.799	1.00	13.66
10204	C	SER	B	551	16.686	0.133	7.921	1.00	15.58
10205	O	SER	B	551	17.221	0.048	6.813	1.00	15.97
10206	N	VAL	B	552	17.359	0.099	9.065	1.00	15.58
10207	CA	VAL	B	552	18.806	-0.028	9.082	1.00	16.15
10208	CB	VAL	B	552	19.431	0.952	10.091	1.00	16.62
10209	CG1	VAL	B	552	20.938	0.727	10.235	1.00	17.30
10210	CG2	VAL	B	552	19.206	2.383	9.603	1.00	16.40
10211	C	VAL	B	552	19.142	-1.444	9.426	1.00	16.43
10212	O	VAL	B	552	18.489	-2.051	10.217	1.00	17.50
10213	N	PHE	B	553	20.171	-1.974	8.793	1.00	15.92
10214	CA	PHE	B	553	20.649	-3.324	9.058	1.00	14.53
10215	CB	PHE	B	553	21.389	-3.812	7.843	1.00	13.64
10216	CG	PHE	B	553	22.075	-5.117	8.009	1.00	8.25
10217	CD1	PHE	B	553	21.545	-6.276	7.422	1.00	6.38
10218	CE1	PHE	B	553	22.205	-7.496	7.496	1.00	4.26
10219	CZ	PHE	B	553	23.418	-7.567	8.180	1.00	5.61
10220	CE2	PHE	B	553	23.978	-6.388	8.745	1.00	2.00
10221	CD2	PHE	B	553	23.282	-5.183	8.638	1.00	3.65
10222	C	PHE	B	553	21.631	-3.275	10.156	1.00	15.70
10223	O	PHE	B	553	22.526	-2.428	10.181	1.00	16.41
10224	N	ALA	B	554	21.505	-4.199	11.078	1.00	15.10
10225	CA	ALA	B	554	22.589	-4.314	12.053	1.00	15.94
10226	CB	ALA	B	554	22.792	-3.015	12.879	1.00	14.62
10227	C	ALA	B	554	22.223	-5.480	12.944	1.00	15.83
10228	O	ALA	B	554	21.176	-5.413	13.632	1.00	17.41
10229	N	VAL	B	555	23.015	-6.547	12.796	1.00	13.33
10230	CA	VAL	B	555	23.169	-7.662	13.714	1.00	12.30
10231	CB	VAL	B	555	24.268	-8.561	13.175	1.00	12.65
10232	CG1	VAL	B	555	23.770	-9.390	12.022	1.00	10.36
10233	CG2	VAL	B	555	25.461	-7.614	12.724	1.00	13.09
10234	C	VAL	B	555	23.749	-7.254	15.037	1.00	12.26
10235	O	VAL	B	555	24.973	-7.058	15.138	1.00	12.40
10236	N	ASN	B	556	22.921	-7.215	16.063	1.00	11.78
10237	CA	ASN	B	556	23.347	-6.649	17.308	1.00	12.50
10238	CB	ASN	B	556	22.883	-5.191	17.397	1.00	13.20
10239	CG	ASN	B	556	21.416	-5.061	17.091	1.00	14.62
10240	OD1	ASN	B	556	20.914	-3.973	16.921	1.00	19.95
10241	ND2	ASN	B	556	20.729	-6.186	16.980	1.00	15.00
10242	C	ASN	B	556	22.869	-7.521	18.477	1.00	12.58

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10243	O	ASN	B	556	22.552	-8.676	18.310	1.00	12.90
10244	N	TRP	B	557	22.894	-6.997	19.694	1.00	11.91
10245	CA	TRP	B	557	22.505	-7.788	20.839	1.00	9.56
10246	CB	TRP	B	557	22.716	-6.956	22.088	1.00	9.95
10247	CG	TRP	B	557	22.427	-7.625	23.276	1.00	9.22
10248	CD1	TRP	B	557	22.947	-8.781	23.654	1.00	10.47
10249	NE1	TRP	B	557	22.452	-9.126	24.881	1.00	11.53
10250	CE2	TRP	B	557	21.560	-8.183	25.281	1.00	9.77
10251	CD2	TRP	B	557	21.533	-7.210	24.283	1.00	8.82
10252	CE3	TRP	B	557	20.744	-6.083	24.475	1.00	7.96
10253	CZ3	TRP	B	557	19.982	-6.006	25.628	1.00	12.60
10254	CH2	TRP	B	557	19.998	-7.058	26.605	1.00	10.81
10255	CZ2	TRP	B	557	20.793	-8.113	26.443	1.00	8.97
10256	C	TRP	B	557	21.074	-8.235	20.695	1.00	9.16
10257	O	TRP	B	557	20.818	-9.423	20.779	1.00	9.03
10258	N	ILE	B	558	20.162	-7.280	20.462	1.00	8.90
10259	CA	ILE	B	558	18.705	-7.452	20.295	1.00	9.63
10260	CB	ILE	B	558	18.140	-6.070	19.745	1.00	11.18
10261	CG1	ILE	B	558	18.300	-4.953	20.755	1.00	12.33
10262	CD1	ILE	B	558	17.424	-5.123	21.965	1.00	6.80
10263	CG2	ILE	B	558	16.693	-6.107	19.371	1.00	12.18
10264	C	ILE	B	558	18.437	-8.496	19.211	1.00	10.81
10265	O	ILE	B	558	17.452	-9.193	19.257	1.00	12.81
10266	N	SER	B	559	19.327	-8.591	18.217	1.00	10.03
10267	CA	SER	B	559	19.233	-9.590	17.188	1.00	10.66
10268	CB	SER	B	559	20.308	-9.348	16.085	1.00	11.65
10269	OG	SER	B	559	19.985	-8.290	15.208	1.00	10.89
10270	C	SER	B	559	19.379	-11.064	17.748	1.00	11.04
10271	O	SER	B	559	18.556	-11.909	17.461	1.00	10.01
10272	N	TYR	B	560	20.458	-11.302	18.510	1.00	10.51
10273	CA	TYR	B	560	20.830	-12.590	19.103	1.00	11.01
10274	CB	TYR	B	560	22.241	-12.445	19.618	1.00	10.33
10275	CG	TYR	B	560	22.481	-12.998	20.947	1.00	12.01
10276	CD1	TYR	B	560	23.068	-14.227	21.102	1.00	12.72
10277	CE1	TYR	B	560	23.294	-14.730	22.338	1.00	13.58
10278	CZ	TYR	B	560	22.967	-13.982	23.430	1.00	11.62
10279	OH	TYR	B	560	23.171	-14.477	24.668	1.00	11.38
10280	CE2	TYR	B	560	22.387	-12.773	23.307	1.00	13.06
10281	CD2	TYR	B	560	22.155	-12.273	22.086	1.00	13.30
10282	C	TYR	B	560	19.912	-13.139	20.233	1.00	11.43
10283	O	TYR	B	560	19.636	-14.363	20.325	1.00	11.05
10284	N	LEU	B	561	19.400	-12.207	21.038	1.00	11.80
10285	CA	LEU	B	561	18.323	-12.513	21.981	1.00	11.40
10286	CB	LEU	B	561	17.732	-11.205	22.528	1.00	11.09
10287	CG	LEU	B	561	18.592	-10.394	23.468	1.00	10.79
10288	CD1	LEU	B	561	17.737	-9.443	24.233	1.00	12.78
10289	CD2	LEU	B	561	19.296	-11.239	24.399	1.00	9.32
10290	C	LEU	B	561	17.197	-13.294	21.293	1.00	10.75
10291	O	LEU	B	561	16.617	-14.194	21.850	1.00	10.30
10292	N	ALA	B	562	16.878	-12.866	20.077	1.00	10.77
10293	CA	ALA	B	562	15.917	-13.554	19.184	1.00	9.37

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10294	CB	ALA	B	562	15.340	-12.539	18.168	1.00	8.75
10295	C	ALA	B	562	16.480	-14.741	18.447	1.00	8.59
10296	O	ALA	B	562	15.778	-15.718	18.279	1.00	8.57
10297	N	SER	B	563	17.730	-14.656	17.993	1.00	8.52
10298	CA	SER	B	563	18.290	-15.724	17.157	1.00	9.76
10299	CB	SER	B	563	19.654	-15.315	16.550	1.00	10.38
10300	OG	SER	B	563	20.359	-16.443	16.000	1.00	11.21
10301	C	SER	B	563	18.390	-17.073	17.935	1.00	9.28
10302	O	SER	B	563	17.842	-18.017	17.504	1.00	8.42
10303	N	LYS	B	564	19.046	-17.013	19.107	1.00	10.38
10304	CA	LYS	B	564	19.370	-18.078	20.086	1.00	11.21
10305	CB	LYS	B	564	20.790	-17.832	20.639	1.00	11.24
10306	CG	LYS	B	564	21.381	-18.831	21.645	1.00	13.20
10307	CD	LYS	B	564	22.163	-20.059	20.947	1.00	19.89
10308	CE	LYS	B	564	23.075	-20.883	21.921	1.00	22.10
10309	NZ	LYS	B	564	24.101	-20.013	22.656	1.00	22.12
10310	C	LYS	B	564	18.406	-18.191	21.286	1.00	11.58
10311	O	LYS	B	564	18.038	-19.287	21.612	1.00	11.09
10312	N	GLU	B	565	17.966	-17.112	21.939	1.00	11.41
10313	CA	GLU	B	565	17.247	-17.325	23.212	1.00	12.25
10314	CB	GLU	B	565	17.751	-16.472	24.388	1.00	11.98
10315	CG	GLU	B	565	19.155	-15.930	24.259	1.00	14.12
10316	CD	GLU	B	565	20.219	-16.811	24.908	1.00	18.63
10317	OE1	GLU	B	565	19.943	-18.076	25.197	1.00	16.76
10318	OE2	GLU	B	565	21.327	-16.176	25.103	1.00	17.57
10319	C	GLU	B	565	15.761	-17.174	23.186	1.00	11.67
10320	O	GLU	B	565	15.179	-17.186	24.236	1.00	11.61
10321	N	GLY	B	566	15.152	-16.963	22.039	1.00	10.91
10322	CA	GLY	B	566	13.718	-17.170	21.945	1.00	10.44
10323	C	GLY	B	566	12.844	-15.977	22.341	1.00	10.13
10324	O	GLY	B	566	11.610	-16.099	22.429	1.00	9.77
10325	N	MET	B	567	13.466	-14.839	22.591	1.00	10.05
10326	CA	MET	B	567	12.744	-13.580	22.763	1.00	9.71
10327	CB	MET	B	567	13.695	-12.581	23.365	1.00	8.82
10328	CG	MET	B	567	13.935	-12.860	24.847	1.00	12.08
10329	SD	MET	B	567	15.479	-12.167	25.560	1.00	16.70
10330	CE	MET	B	567	16.481	-13.550	25.969	1.00	12.23
10331	C	MET	B	567	12.190	-12.974	21.481	1.00	9.73
10332	O	MET	B	567	12.862	-12.955	20.444	1.00	10.82
10333	N	VAL	B	568	10.961	-12.483	21.534	1.00	9.13
10334	CA	VAL	B	568	10.532	-11.458	20.606	1.00	7.79
10335	CB	VAL	B	568	9.017	-11.292	20.560	1.00	7.59
10336	CG1	VAL	B	568	8.558	-9.948	19.787	1.00	7.10
10337	CG2	VAL	B	568	8.367	-12.489	20.013	1.00	4.61
10338	C	VAL	B	568	11.043	-10.179	21.209	1.00	8.48
10339	O	VAL	B	568	10.842	-9.951	22.399	1.00	9.88
10340	N	ILE	B	569	11.672	-9.332	20.408	1.00	8.09
10341	CA	ILE	B	569	11.890	-7.907	20.751	1.00	8.16
10342	CB	ILE	B	569	13.220	-7.429	20.282	1.00	7.31
10343	CG1	ILE	B	569	14.245	-8.568	20.164	1.00	9.48
10344	CD1	ILE	B	569	14.313	-9.567	21.412	1.00	4.27

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10345	CG2	ILE	B	569	13.724	-6.509	21.278	1.00	10.24
10346	C	ILE	B	569	10.925	-7.015	20.055	1.00	7.88
10347	O	ILE	B	569	10.321	-7.400	19.065	1.00	7.61
10348	N	ALA	B	570	10.772	-5.795	20.539	1.00	7.94
10349	CA	ALA	B	570	10.083	-4.829	19.726	1.00	8.40
10350	CB	ALA	B	570	8.616	-4.921	19.965	1.00	7.13
10351	C	ALA	B	570	10.595	-3.424	19.954	1.00	8.57
10352	O	ALA	B	570	11.208	-3.192	20.976	1.00	10.15
10353	N	LEU	B	571	10.375	-2.477	19.044	1.00	7.83
10354	CA	LEU	B	571	10.810	-1.124	19.342	1.00	8.22
10355	CB	LEU	B	571	12.115	-0.813	18.654	1.00	7.38
10356	CG	LEU	B	571	13.492	-1.483	18.903	1.00	9.86
10357	CD1	LEU	B	571	13.659	-2.957	18.466	1.00	2.00
10358	CD2	LEU	B	571	14.594	-0.586	18.111	1.00	6.51
10359	C	LEU	B	571	9.730	-0.139	18.879	1.00	8.14
10360	O	LEU	B	571	9.167	-0.284	17.825	1.00	9.71
10361	N	VAL	B	572	9.401	0.841	19.683	1.00	7.91
10362	CA	VAL	B	572	8.275	1.688	19.354	1.00	8.30
10363	CB	VAL	B	572	7.185	1.389	20.301	1.00	8.50
10364	CG1	VAL	B	572	5.895	2.031	19.910	1.00	7.60
10365	CG2	VAL	B	572	6.999	-0.221	20.399	1.00	9.15
10366	C	VAL	B	572	8.660	3.203	19.263	1.00	9.28
10367	O	VAL	B	572	9.221	3.811	20.162	1.00	7.58
10368	N	ASP	B	573	8.373	3.774	18.119	1.00	9.98
10369	CA	ASP	B	573	8.347	5.225	18.002	1.00	12.58
10370	CB	ASP	B	573	8.842	5.648	16.654	1.00	11.43
10371	CG	ASP	B	573	10.316	5.422	16.475	1.00	13.56
10372	OD1	ASP	B	573	10.741	5.319	15.281	1.00	16.01
10373	OD2	ASP	B	573	11.085	5.340	17.446	1.00	15.45
10374	C	ASP	B	573	6.942	5.744	18.195	1.00	12.13
10375	O	ASP	B	573	6.037	5.244	17.604	1.00	14.25
10376	N	GLY	B	574	6.778	6.717	19.069	1.00	12.93
10377	CA	GLY	B	574	5.505	7.353	19.316	1.00	12.61
10378	C	GLY	B	574	5.828	8.798	19.492	1.00	12.16
10379	O	GLY	B	574	6.703	9.276	18.806	1.00	11.95
10380	N	ARG	B	575	5.134	9.495	20.387	1.00	11.88
10381	CA	ARG	B	575	5.171	10.964	20.426	1.00	10.87
10382	CB	ARG	B	575	4.095	11.523	21.342	1.00	9.84
10383	CG	ARG	B	575	2.728	11.681	20.749	1.00	12.59
10384	CD	ARG	B	575	1.606	11.707	21.753	1.00	11.09
10385	NE	ARG	B	575	1.500	10.440	22.534	1.00	16.37
10386	CZ	ARG	B	575	0.598	10.263	23.539	1.00	17.19
10387	NH1	ARG	B	575	-0.219	11.231	23.902	1.00	19.57
10388	NH2	ARG	B	575	0.478	9.118	24.158	1.00	16.66
10389	C	ARG	B	575	6.478	11.481	20.906	1.00	9.94
10390	O	ARG	B	575	7.105	10.871	21.748	1.00	10.11
10391	N	GLY	B	576	6.873	12.659	20.415	1.00	10.07
10392	CA	GLY	B	576	8.217	13.194	20.647	1.00	10.51
10393	C	GLY	B	576	9.212	12.659	19.617	1.00	12.62
10394	O	GLY	B	576	10.247	13.318	19.368	1.00	11.74
10395	N	THR	B	577	8.913	11.504	19.016	1.00	12.42

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10396	CA	THR	B	577	9.653	10.984	17.899	1.00	13.41
10397	CB	THR	B	577	9.314	9.495	17.765	1.00	15.26
10398	OG1	THR	B	577	10.518	8.788	17.557	1.00	20.60
10399	CG2	THR	B	577	8.609	9.110	16.574	1.00	11.82
10400	C	THR	B	577	9.547	11.739	16.598	1.00	12.60
10401	O	THR	B	577	8.591	12.335	16.313	1.00	11.57
10402	N	ALA	B	578	10.563	11.734	15.773	1.00	13.38
10403	CA	ALA	B	578	10.607	12.717	14.637	1.00	13.58
10404	CB	ALA	B	578	11.918	13.403	14.567	1.00	12.97
10405	C	ALA	B	578	10.284	12.089	13.290	1.00	13.68
10406	O	ALA	B	578	9.883	10.861	13.251	1.00	14.81
10407	N	PHE	B	579	10.333	12.980	12.282	1.00	13.13
10408	CA	PHE	B	579	10.333	12.715	10.862	1.00	12.60
10409	CB	PHE	B	579	11.350	11.610	10.562	1.00	12.74
10410	CG	PHE	B	579	12.749	11.928	11.149	1.00	11.46
10411	CD1	PHE	B	579	13.372	11.048	11.963	1.00	7.45
10412	CE1	PHE	B	579	14.608	11.341	12.504	1.00	11.96
10413	CZ	PHE	B	579	15.256	12.602	12.210	1.00	10.65
10414	CE2	PHE	B	579	14.617	13.494	11.459	1.00	9.12
10415	CD2	PHE	B	579	13.344	13.185	10.943	1.00	8.49
10416	C	PHE	B	579	8.942	12.411	10.407	1.00	12.61
10417	O	PHE	B	579	8.677	11.805	9.349	1.00	12.40
10418	N	GLN	B	580	8.015	12.834	11.235	1.00	12.70
10419	CA	GLN	B	580	6.650	12.430	11.025	1.00	10.16
10420	CB	GLN	B	580	6.282	11.311	11.934	1.00	10.58
10421	CG	GLN	B	580	6.695	10.007	11.447	1.00	11.57
10422	CD	GLN	B	580	5.959	8.884	12.216	1.00	11.31
10423	OE1	GLN	B	580	6.541	8.150	13.107	1.00	10.14
10424	NE2	GLN	B	580	4.725	8.798	11.928	1.00	2.00
10425	C	GLN	B	580	5.714	13.498	11.302	1.00	9.26
10426	O	GLN	B	580	4.564	13.165	11.444	1.00	6.90
10427	N	GLY	B	581	6.184	14.752	11.286	1.00	9.12
10428	CA	GLY	B	581	5.302	15.880	11.553	1.00	10.90
10429	C	GLY	B	581	5.621	16.516	12.909	1.00	12.53
10430	O	GLY	B	581	6.149	15.784	13.786	1.00	10.74
10431	N	ASP	B	582	5.280	17.832	13.058	1.00	11.03
10432	CA	ASP	B	582	5.283	18.605	14.311	1.00	9.31
10433	CB	ASP	B	582	5.194	20.074	13.956	1.00	9.22
10434	CG	ASP	B	582	6.521	20.617	13.333	1.00	10.78
10435	OD1	ASP	B	582	6.564	21.844	12.967	1.00	13.30
10436	OD2	ASP	B	582	7.564	19.890	13.249	1.00	2.04
10437	C	ASP	B	582	4.196	18.241	15.418	1.00	10.90
10438	O	ASP	B	582	4.540	18.064	16.562	1.00	10.79
10439	N	LYS	B	583	2.903	18.140	15.120	1.00	8.29
10440	CA	LYS	B	583	1.979	17.417	16.030	1.00	10.14
10441	CB	LYS	B	583	0.754	16.931	15.261	1.00	6.72
10442	CG	LYS	B	583	-0.623	16.955	16.005	1.00	14.75
10443	CD	LYS	B	583	-1.796	16.696	14.999	1.00	20.18
10444	CE	LYS	B	583	-3.200	17.349	15.339	1.00	27.82
10445	NZ	LYS	B	583	-4.172	16.300	15.793	1.00	25.78
10446	C	LYS	B	583	2.670	16.172	16.818	1.00	10.57

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10447	O	LYS	B	583	2.668	16.151	18.041	1.00	10.14
10448	N	LEU	B	584	3.203	15.175	16.117	1.00	9.40
10449	CA	LEU	B	584	3.889	14.082	16.801	1.00	10.01
10450	CB	LEU	B	584	4.055	12.886	15.869	1.00	9.35
10451	CG	LEU	B	584	4.666	11.645	16.411	1.00	10.79
10452	CD1	LEU	B	584	3.620	10.802	17.010	1.00	7.81
10453	CD2	LEU	B	584	5.318	10.805	15.298	1.00	10.75
10454	C	LEU	B	584	5.217	14.492	17.491	1.00	10.35
10455	O	LEU	B	584	5.455	14.139	18.626	1.00	11.21
10456	N	LEU	B	585	6.004	15.365	16.918	1.00	9.56
10457	CA	LEU	B	585	7.308	15.743	17.502	1.00	9.12
10458	CB	LEU	B	585	8.075	16.593	16.517	1.00	9.92
10459	CG	LEU	B	585	9.469	17.080	16.989	1.00	7.74
10460	CD1	LEU	B	585	10.369	15.877	17.249	1.00	2.00
10461	CD2	LEU	B	585	10.092	17.934	15.901	1.00	6.84
10462	C	LEU	B	585	7.115	16.619	18.721	1.00	8.95
10463	O	LEU	B	585	7.595	16.316	19.762	1.00	9.65
10464	N	TYR	B	586	6.406	17.709	18.586	1.00	8.57
10465	CA	TYR	B	586	6.164	18.568	19.731	1.00	9.78
10466	CB	TYR	B	586	5.755	19.931	19.265	1.00	10.45
10467	CG	TYR	B	586	6.832	20.523	18.362	1.00	13.10
10468	CD1	TYR	B	586	8.178	20.215	18.518	1.00	12.72
10469	CE1	TYR	B	586	9.174	20.765	17.669	1.00	16.93
10470	CZ	TYR	B	586	8.769	21.652	16.664	1.00	16.73
10471	OH	TYR	B	586	9.577	22.269	15.785	1.00	15.74
10472	CE2	TYR	B	586	7.427	21.904	16.459	1.00	20.44
10473	CD2	TYR	B	586	6.462	21.328	17.332	1.00	15.91
10474	C	TYR	B	586	5.226	18.101	20.815	1.00	9.53
10475	O	TYR	B	586	5.055	18.758	21.865	1.00	10.39
10476	N	ALA	B	587	4.732	16.889	20.677	1.00	8.44
10477	CA	ALA	B	587	3.719	16.501	21.612	1.00	7.93
10478	CB	ALA	B	587	3.111	15.244	21.231	1.00	7.96
10479	C	ALA	B	587	4.246	16.454	23.017	1.00	7.58
10480	O	ALA	B	587	3.510	16.720	23.925	1.00	8.64
10481	N	VAL	B	588	5.489	15.999	23.193	1.00	7.15
10482	CA	VAL	B	588	6.108	15.863	24.493	1.00	5.68
10483	CB	VAL	B	588	7.216	14.937	24.437	1.00	6.22
10484	CG1	VAL	B	588	6.806	13.624	23.920	1.00	7.67
10485	CG2	VAL	B	588	8.408	15.546	23.659	1.00	5.20
10486	C	VAL	B	588	6.669	17.197	25.080	1.00	6.16
10487	O	VAL	B	588	7.168	17.244	26.217	1.00	6.54
10488	N	TYR	B	589	6.473	18.302	24.383	1.00	6.82
10489	CA	TYR	B	589	6.974	19.589	24.869	1.00	7.83
10490	CB	TYR	B	589	6.508	20.667	23.966	1.00	6.91
10491	CG	TYR	B	589	7.332	21.874	24.061	1.00	11.15
10492	CD1	TYR	B	589	6.766	23.084	23.848	1.00	14.48
10493	CE1	TYR	B	589	7.448	24.182	23.905	1.00	15.67
10494	CZ	TYR	B	589	8.774	24.149	24.126	1.00	17.85
10495	OH	TYR	B	589	9.374	25.369	24.118	1.00	19.00
10496	CE2	TYR	B	589	9.443	22.956	24.310	1.00	15.18
10497	CD2	TYR	B	589	8.710	21.821	24.276	1.00	13.51

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10498	C	TYR	B	589	6.580	19.942	26.302	1.00	7.80
10499	O	TYR	B	589	5.448	20.117	26.628	1.00	5.86
10500	N	ARG	B	590	7.541	19.974	27.197	1.00	8.70
10501	CA	ARG	B	590	7.363	20.434	28.598	1.00	9.50
10502	CB	ARG	B	590	6.636	21.739	28.698	1.00	8.77
10503	CG	ARG	B	590	7.239	22.738	27.846	1.00	7.15
10504	CD	ARG	B	590	6.353	23.863	27.592	1.00	8.79
10505	NE	ARG	B	590	5.987	24.474	28.842	1.00	14.87
10506	CZ	ARG	B	590	6.602	25.506	29.445	1.00	20.01
10507	NH1	ARG	B	590	7.640	26.098	28.862	1.00	19.83
10508	NH2	ARG	B	590	6.130	25.972	30.635	1.00	17.14
10509	C	ARG	B	590	6.698	19.444	29.490	1.00	11.29
10510	O	ARG	B	590	6.392	19.740	30.595	1.00	11.96
10511	N	LYS	B	591	6.700	18.220	29.026	1.00	13.30
10512	CA	LYS	B	591	5.822	17.200	29.486	1.00	12.87
10513	CB	LYS	B	591	4.520	17.310	28.691	1.00	11.73
10514	CG	LYS	B	591	3.309	17.592	29.546	1.00	18.97
10515	CD	LYS	B	591	2.026	16.596	29.315	1.00	26.37
10516	CE	LYS	B	591	0.887	16.846	30.383	1.00	33.31
10517	NZ	LYS	B	591	1.480	16.898	31.840	1.00	38.52
10518	C	LYS	B	591	6.609	15.878	29.237	1.00	13.48
10519	O	LYS	B	591	6.036	14.859	28.975	1.00	15.20
10520	N	LEU	B	592	7.941	15.914	29.393	1.00	13.65
10521	CA	LEU	B	592	8.824	14.756	29.146	1.00	12.31
10522	CB	LEU	B	592	10.325	15.171	29.267	1.00	10.99
10523	CG	LEU	B	592	11.095	15.593	28.042	1.00	11.48
10524	CD1	LEU	B	592	10.292	16.618	27.336	1.00	2.71
10525	CD2	LEU	B	592	12.585	16.072	28.261	1.00	3.90
10526	C	LEU	B	592	8.555	13.620	30.134	1.00	13.63
10527	O	LEU	B	592	8.189	13.806	31.264	1.00	15.69
10528	N	GLY	B	593	8.791	12.415	29.659	1.00	14.95
10529	CA	GLY	B	593	8.578	11.180	30.392	1.00	14.29
10530	C	GLY	B	593	7.180	10.899	30.736	1.00	14.60
10531	O	GLY	B	593	6.999	10.284	31.790	1.00	19.94
10532	N	VAL	B	594	6.199	11.403	29.963	1.00	11.97
10533	CA	VAL	B	594	4.823	11.100	30.171	1.00	10.46
10534	CB	VAL	B	594	3.915	12.348	30.233	1.00	9.17
10535	CG1	VAL	B	594	2.489	11.950	30.476	1.00	8.09
10536	CG2	VAL	B	594	4.284	13.325	31.298	1.00	5.96
10537	C	VAL	B	594	4.359	10.252	29.002	1.00	12.74
10538	O	VAL	B	594	4.075	9.058	29.143	1.00	13.27
10539	N	TYR	B	595	4.264	10.844	27.814	1.00	14.30
10540	CA	TYR	B	595	3.707	10.092	26.647	1.00	13.05
10541	CB	TYR	B	595	3.248	11.010	25.552	1.00	12.31
10542	CG	TYR	B	595	2.299	12.178	25.923	1.00	12.58
10543	CD1	TYR	B	595	2.397	13.377	25.282	1.00	15.30
10544	CE1	TYR	B	595	1.521	14.456	25.586	1.00	23.64
10545	CZ	TYR	B	595	0.479	14.320	26.501	1.00	23.57
10546	OH	TYR	B	595	-0.307	15.418	26.754	1.00	24.78
10547	CE2	TYR	B	595	0.323	13.117	27.144	1.00	19.30
10548	CD2	TYR	B	595	1.260	12.039	26.837	1.00	19.49

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10549	C	TYR	B	595	4.740	9.094	26.098	1.00	13.07
10550	O	TYR	B	595	4.389	8.161	25.487	1.00	13.34
10551	N	GLU	B	596	6.030	9.256	26.365	1.00	11.42
10552	CA	GLU	B	596	6.983	8.258	25.975	1.00	11.91
10553	CB	GLU	B	596	8.306	8.689	26.437	1.00	9.81
10554	CG	GLU	B	596	8.770	9.947	25.691	1.00	13.70
10555	CD	GLU	B	596	8.624	11.194	26.538	1.00	14.59
10556	OE1	GLU	B	596	9.637	11.831	26.856	1.00	14.81
10557	OE2	GLU	B	596	7.481	11.519	26.904	1.00	12.63
10558	C	GLU	B	596	6.632	6.935	26.679	1.00	12.84
10559	O	GLU	B	596	6.832	5.819	26.171	1.00	11.46
10560	N	VAL	B	597	6.181	7.088	27.900	1.00	12.73
10561	CA	VAL	B	597	5.875	5.952	28.687	1.00	12.65
10562	CB	VAL	B	597	5.776	6.374	30.198	1.00	14.28
10563	CG1	VAL	B	597	5.508	5.199	31.098	1.00	11.53
10564	CG2	VAL	B	597	7.085	7.083	30.656	1.00	10.48
10565	C	VAL	B	597	4.576	5.351	28.127	1.00	14.15
10566	O	VAL	B	597	4.585	4.153	27.682	1.00	14.31
10567	N	GLU	B	598	3.548	6.227	28.030	1.00	13.36
10568	CA	GLU	B	598	2.173	5.876	27.649	1.00	13.13
10569	CB	GLU	B	598	1.268	7.105	27.442	1.00	13.31
10570	CG	GLU	B	598	0.413	7.596	28.591	1.00	18.92
10571	CD	GLU	B	598	-0.386	8.896	28.247	1.00	26.36
10572	OE1	GLU	B	598	-1.303	8.896	27.333	1.00	21.24
10573	OE2	GLU	B	598	-0.147	9.946	28.946	1.00	30.42
10574	C	GLU	B	598	2.218	5.131	26.331	1.00	12.35
10575	O	GLU	B	598	1.521	4.140	26.127	1.00	10.72
10576	N	ASP	B	599	3.018	5.620	25.400	1.00	9.78
10577	CA	ASP	B	599	3.014	5.011	24.047	1.00	9.16
10578	CB	ASP	B	599	3.726	5.945	23.006	1.00	9.27
10579	CG	ASP	B	599	2.974	7.269	22.719	1.00	8.90
10580	OD1	ASP	B	599	1.816	7.435	23.066	1.00	4.75
10581	OD2	ASP	B	599	3.462	8.212	22.115	1.00	12.85
10582	C	ASP	B	599	3.752	3.678	24.084	1.00	8.12
10583	O	ASP	B	599	3.565	2.873	23.194	1.00	8.20
10584	N	GLN	B	600	4.634	3.455	25.053	1.00	7.13
10585	CA	GLN	B	600	5.308	2.195	25.079	1.00	7.98
10586	CB	GLN	B	600	6.624	2.219	25.828	1.00	7.21
10587	CG	GLN	B	600	7.717	2.950	25.142	1.00	7.40
10588	CD	GLN	B	600	8.339	2.356	23.910	1.00	10.14
10589	OE1	GLN	B	600	8.550	3.057	22.949	1.00	16.33
10590	NE2	GLN	B	600	8.750	1.166	23.976	1.00	10.65
10591	C	GLN	B	600	4.340	1.105	25.654	1.00	9.30
10592	O	GLN	B	600	4.357	-0.010	25.117	1.00	10.26
10593	N	ILE	B	601	3.500	1.458	26.664	1.00	9.33
10594	CA	ILE	B	601	2.541	0.532	27.324	1.00	9.82
10595	CB	ILE	B	601	1.800	1.178	28.586	1.00	9.25
10596	CG1	ILE	B	601	2.621	1.087	29.875	1.00	9.85
10597	CD1	ILE	B	601	3.642	2.269	30.079	1.00	15.35
10598	CG2	ILE	B	601	0.466	0.544	28.822	1.00	2.66
10599	C	ILE	B	601	1.568	0.172	26.243	1.00	10.10

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10600	O	ILE	B	601	1.358	-0.993	25.896	1.00	12.83
10601	N	THR	B	602	1.038	1.225	25.655	1.00	11.49
10602	CA	THR	B	602	0.115	1.094	24.530	1.00	12.78
10603	CB	THR	B	602	-0.059	2.395	23.855	1.00	12.90
10604	OG1	THR	B	602	-0.784	3.240	24.738	1.00	14.89
10605	CG2	THR	B	602	-0.988	2.246	22.677	1.00	11.85
10606	C	THR	B	602	0.569	0.057	23.559	1.00	12.08
10607	O	THR	B	602	-0.149	-0.838	23.252	1.00	11.08
10608	N	ALA	B	603	1.794	0.194	23.091	1.00	12.78
10609	CA	ALA	B	603	2.250	-0.767	22.081	1.00	12.05
10610	CB	ALA	B	603	3.667	-0.480	21.594	1.00	11.35
10611	C	ALA	B	603	2.185	-2.092	22.704	1.00	11.00
10612	O	ALA	B	603	1.603	-2.952	22.103	1.00	11.98
10613	N	VAL	B	604	2.772	-2.247	23.904	1.00	9.51
10614	CA	VAL	B	604	2.924	-3.557	24.520	1.00	8.77
10615	CB	VAL	B	604	3.635	-3.591	25.816	1.00	8.63
10616	CG1	VAL	B	604	3.709	-5.071	26.268	1.00	9.06
10617	CG2	VAL	B	604	5.111	-3.056	25.739	1.00	6.60
10618	C	VAL	B	604	1.549	-4.156	24.726	1.00	10.56
10619	O	VAL	B	604	1.421	-5.336	24.499	1.00	10.54
10620	N	ARG	B	605	0.480	-3.370	24.989	1.00	11.14
10621	CA	ARG	B	605	-0.882	-4.016	25.185	1.00	11.66
10622	CB	ARG	B	605	-2.004	-3.077	25.756	1.00	11.10
10623	CG	ARG	B	605	-1.686	-2.500	27.134	1.00	10.76
10624	CD	ARG	B	605	-2.610	-1.416	27.667	1.00	11.35
10625	NE	ARG	B	605	-2.253	-0.999	29.040	1.00	5.30
10626	CZ	ARG	B	605	-2.354	-1.784	30.098	1.00	8.90
10627	NH1	ARG	B	605	-2.035	-1.347	31.284	1.00	5.60
10628	NH2	ARG	B	605	-2.842	-3.034	30.015	1.00	12.49
10629	C	ARG	B	605	-1.312	-4.617	23.876	1.00	12.26
10630	O	ARG	B	605	-1.778	-5.802	23.819	1.00	13.66
10631	N	LYS	B	606	-1.164	-3.804	22.827	1.00	11.30
10632	CA	LYS	B	606	-1.533	-4.246	21.509	1.00	11.10
10633	CB	LYS	B	606	-1.401	-3.127	20.537	1.00	10.37
10634	CG	LYS	B	606	-2.758	-2.648	20.033	1.00	15.81
10635	CD	LYS	B	606	-3.364	-1.405	20.833	1.00	16.49
10636	CE	LYS	B	606	-4.860	-1.721	21.309	1.00	14.02
10637	NZ	LYS	B	606	-5.947	-1.009	20.494	1.00	8.48
10638	C	LYS	B	606	-0.680	-5.445	21.125	1.00	10.59
10639	O	LYS	B	606	-1.183	-6.452	20.634	1.00	10.51
10640	N	PHE	B	607	0.621	-5.392	21.401	1.00	9.78
10641	CA	PHE	B	607	1.404	-6.617	21.197	1.00	9.01
10642	CB	PHE	B	607	2.802	-6.451	21.656	1.00	8.28
10643	CG	PHE	B	607	3.597	-5.476	20.888	1.00	4.08
10644	CD1	PHE	B	607	3.443	-5.327	19.543	1.00	4.60
10645	CE1	PHE	B	607	4.159	-4.459	18.874	1.00	2.00
10646	CZ	PHE	B	607	5.112	-3.711	19.561	1.00	2.00
10647	CE2	PHE	B	607	5.280	-3.867	20.856	1.00	2.00
10648	CD2	PHE	B	607	4.523	-4.722	21.528	1.00	3.66
10649	C	PHE	B	607	0.871	-7.874	21.928	1.00	10.65
10650	O	PHE	B	607	0.965	-8.941	21.379	1.00	10.93

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10651	N	ILE	B	608	0.373	-7.776	23.166	1.00	11.75
10652	CA	ILE	B	608	0.018	-8.977	23.868	1.00	12.28
10653	CB	ILE	B	608	0.012	-8.813	25.411	1.00	12.67
10654	CG1	ILE	B	608	-1.382	-8.480	25.931	1.00	12.03
10655	CD1	ILE	B	608	-1.391	-8.363	27.470	1.00	11.29
10656	CG2	ILE	B	608	1.204	-7.804	26.036	1.00	10.76
10657	C	ILE	B	608	-1.336	-9.459	23.293	1.00	14.04
10658	O	ILE	B	608	-1.558	-10.653	23.162	1.00	13.01
10659	N	GLU	B	609	-2.187	-8.491	22.929	1.00	15.61
10660	CA	GLU	B	609	-3.438	-8.672	22.199	1.00	17.72
10661	CB	GLU	B	609	-4.166	-7.293	22.173	1.00	18.11
10662	CG	GLU	B	609	-5.633	-7.230	21.696	1.00	25.08
10663	CD	GLU	B	609	-6.347	-5.845	21.914	1.00	31.50
10664	OE1	GLU	B	609	-6.967	-5.697	23.018	1.00	33.75
10665	OE2	GLU	B	609	-6.341	-4.916	21.004	1.00	30.69
10666	C	GLU	B	609	-3.204	-9.168	20.751	1.00	17.60
10667	O	GLU	B	609	-4.033	-8.986	19.921	1.00	18.01
10668	N	MET	B	610	-2.059	-9.741	20.429	1.00	17.11
10669	CA	MET	B	610	-1.871	-10.349	19.130	1.00	16.66
10670	CB	MET	B	610	-0.553	-9.897	18.505	1.00	16.20
10671	CG	MET	B	610	-0.714	-8.619	17.733	1.00	15.47
10672	SD	MET	B	610	0.785	-7.804	17.296	1.00	15.64
10673	CE	MET	B	610	0.169	-6.194	17.200	1.00	13.61
10674	C	MET	B	610	-1.855	-11.861	19.268	1.00	17.28
10675	O	MET	B	610	-1.611	-12.568	18.296	1.00	17.78
10676	N	GLY	B	611	-2.091	-12.352	20.482	1.00	17.10
10677	CA	GLY	B	611	-1.984	-13.775	20.789	1.00	16.59
10678	C	GLY	B	611	-0.631	-14.410	21.093	1.00	16.05
10679	O	GLY	B	611	-0.648	-15.483	21.714	1.00	15.86
10680	N	PHE	B	612	0.507	-13.811	20.697	1.00	15.70
10681	CA	PHE	B	612	1.802	-14.549	20.791	1.00	15.06
10682	CB	PHE	B	612	2.509	-14.678	19.418	1.00	14.82
10683	CG	PHE	B	612	2.789	-13.366	18.717	1.00	15.56
10684	CD1	PHE	B	612	2.065	-12.994	17.614	1.00	15.22
10685	CE1	PHE	B	612	2.319	-11.790	16.984	1.00	17.61
10686	CZ	PHE	B	612	3.346	-10.979	17.425	1.00	19.58
10687	CE2	PHE	B	612	4.088	-11.360	18.511	1.00	18.15
10688	CD2	PHE	B	612	3.807	-12.522	19.158	1.00	15.27
10689	C	PHE	B	612	2.834	-14.132	21.850	1.00	14.88
10690	O	PHE	B	612	3.929	-14.714	21.928	1.00	15.06
10691	N	ILE	B	613	2.518	-13.107	22.636	1.00	14.16
10692	CA	ILE	B	613	3.356	-12.694	23.785	1.00	12.26
10693	CB	ILE	B	613	3.137	-11.250	24.090	1.00	11.04
10694	CG1	ILE	B	613	3.364	-10.451	22.798	1.00	12.26
10695	CD1	ILE	B	613	4.749	-10.760	22.102	1.00	10.21
10696	CG2	ILE	B	613	4.150	-10.725	25.153	1.00	11.05
10697	C	ILE	B	613	2.975	-13.533	24.973	1.00	12.36
10698	O	ILE	B	613	1.859	-14.058	25.060	1.00	13.82
10699	N	ASP	B	614	3.905	-13.695	25.869	1.00	11.81
10700	CA	ASP	B	614	3.620	-14.289	27.133	1.00	12.55
10701	CB	ASP	B	614	4.778	-15.168	27.540	1.00	11.41

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10702	CG	ASP	B	614	4.642	-15.637	28.939	1.00	11.20
10703	OD1	ASP	B	614	3.656	-15.217	29.575	1.00	11.88
10704	OD2	ASP	B	614	5.465	-16.388	29.495	1.00	5.58
10705	C	ASP	B	614	3.413	-13.139	28.099	1.00	13.69
10706	O	ASP	B	614	4.389	-12.432	28.446	1.00	14.87
10707	N	GLU	B	615	2.171	-12.877	28.519	1.00	15.49
10708	CA	GLU	B	615	1.904	-11.640	29.333	1.00	16.56
10709	CB	GLU	B	615	0.447	-11.579	29.807	1.00	16.15
10710	CG	GLU	B	615	-0.585	-11.867	28.741	1.00	18.54
10711	CD	GLU	B	615	-1.950	-11.309	29.115	1.00	20.23
10712	OE1	GLU	B	615	-2.981	-12.000	28.803	1.00	21.40
10713	OE2	GLU	B	615	-1.964	-10.191	29.733	1.00	16.72
10714	C	GLU	B	615	2.860	-11.454	30.566	1.00	16.82
10715	O	GLU	B	615	3.164	-10.319	31.030	1.00	17.82
10716	N	LYS	B	616	3.325	-12.603	31.048	1.00	15.75
10717	CA	LYS	B	616	4.082	-12.679	32.246	1.00	15.89
10718	CB	LYS	B	616	3.681	-13.910	32.967	1.00	15.75
10719	CG	LYS	B	616	2.253	-13.937	33.307	1.00	16.87
10720	CD	LYS	B	616	1.944	-15.312	34.011	1.00	24.20
10721	CE	LYS	B	616	2.701	-16.515	33.383	1.00	25.48
10722	NZ	LYS	B	616	2.706	-16.461	31.837	1.00	26.50
10723	C	LYS	B	616	5.602	-12.721	32.048	1.00	15.68
10724	O	LYS	B	616	6.357	-13.009	33.029	1.00	15.85
10725	N	ARG	B	617	6.059	-12.401	30.843	1.00	13.31
10726	CA	ARG	B	617	7.465	-12.490	30.582	1.00	12.09
10727	CB	ARG	B	617	7.809	-13.889	30.020	1.00	11.14
10728	CG	ARG	B	617	9.031	-14.645	30.758	1.00	8.87
10729	CD	ARG	B	617	8.825	-16.132	31.120	1.00	6.84
10730	NE	ARG	B	617	8.044	-16.788	30.091	1.00	4.48
10731	CZ	ARG	B	617	8.494	-17.241	28.917	1.00	7.72
10732	NH1	ARG	B	617	7.618	-17.731	28.057	1.00	8.81
10733	NH2	ARG	B	617	9.775	-17.216	28.577	1.00	7.92
10734	C	ARG	B	617	7.821	-11.347	29.676	1.00	11.38
10735	O	ARG	B	617	8.154	-11.524	28.544	1.00	12.60
10736	N	ILE	B	618	7.701	-10.134	30.163	1.00	10.66
10737	CA	ILE	B	618	8.025	-9.005	29.311	1.00	9.93
10738	CB	ILE	B	618	6.841	-8.112	29.122	1.00	10.11
10739	CG1	ILE	B	618	5.727	-8.858	28.423	1.00	7.73
10740	CD1	ILE	B	618	4.558	-8.044	28.257	1.00	7.42
10741	CG2	ILE	B	618	7.257	-6.858	28.358	1.00	9.65
10742	C	ILE	B	618	8.956	-8.233	30.033	1.00	9.95
10743	O	ILE	B	618	8.600	-7.823	31.111	1.00	11.55
10744	N	ALA	B	619	10.137	-8.024	29.481	1.00	9.59
10745	CA	ALA	B	619	11.061	-6.947	29.954	1.00	10.14
10746	CB	ALA	B	619	12.537	-7.409	29.896	1.00	9.33
10747	C	ALA	B	619	10.966	-5.728	29.106	1.00	9.36
10748	O	ALA	B	619	10.442	-5.814	28.013	1.00	9.41
10749	N	ILE	B	620	11.622	-4.653	29.566	1.00	10.47
10750	CA	ILE	B	620	11.976	-3.444	28.716	1.00	9.62
10751	CB	ILE	B	620	11.034	-2.366	29.003	1.00	8.56
10752	CG1	ILE	B	620	11.506	-1.005	28.483	1.00	10.25

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10753	CD1	ILE	B	620	10.237	-0.139	28.039	1.00	7.15
10754	CG2	ILE	B	620	10.790	-2.248	30.460	1.00	8.42
10755	C	ILE	B	620	13.388	-3.000	29.081	1.00	11.06
10756	O	ILE	B	620	13.789	-3.187	30.201	1.00	12.56
10757	N	TRP	B	621	14.201	-2.493	28.164	1.00	11.15
10758	CA	TRP	B	621	15.492	-1.996	28.503	1.00	10.55
10759	CB	TRP	B	621	16.492	-3.086	28.321	1.00	10.14
10760	CG	TRP	B	621	17.230	-3.004	27.001	1.00	14.79
10761	CD1	TRP	B	621	16.807	-3.506	25.828	1.00	15.71
10762	NE1	TRP	B	621	17.713	-3.218	24.846	1.00	16.40
10763	CE2	TRP	B	621	18.751	-2.513	25.364	1.00	19.14
10764	CD2	TRP	B	621	18.489	-2.352	26.722	1.00	18.02
10765	CE3	TRP	B	621	19.430	-1.683	27.493	1.00	17.98
10766	CZ3	TRP	B	621	20.590	-1.228	26.882	1.00	18.43
10767	CH2	TRP	B	621	20.817	-1.401	25.526	1.00	17.19
10768	CZ2	TRP	B	621	19.922	-2.039	24.749	1.00	16.52
10769	C	TRP	B	621	15.901	-0.777	27.655	1.00	11.68
10770	O	TRP	B	621	15.608	-0.566	26.480	1.00	11.43
10771	N	GLY	B	622	16.652	0.056	28.262	1.00	12.95
10772	CA	GLY	B	622	16.951	1.293	27.601	1.00	13.82
10773	C	GLY	B	622	18.143	1.944	28.263	1.00	14.62
10774	O	GLY	B	622	18.248	1.923	29.459	1.00	14.93
10775	N	TRP	B	623	18.969	2.509	27.409	1.00	15.05
10776	CA	TRP	B	623	20.103	3.385	27.738	1.00	16.81
10777	CB	TRP	B	623	21.273	2.820	26.954	1.00	16.44
10778	CG	TRP	B	623	22.644	3.381	26.984	1.00	22.13
10779	CD1	TRP	B	623	23.095	4.656	27.243	1.00	22.85
10780	NE1	TRP	B	623	24.460	4.692	27.112	1.00	22.99
10781	CE2	TRP	B	623	24.917	3.438	26.744	1.00	28.38
10782	CD2	TRP	B	623	23.800	2.613	26.607	1.00	27.95
10783	CE3	TRP	B	623	23.993	1.271	26.140	1.00	27.02
10784	CZ3	TRP	B	623	25.266	0.812	25.843	1.00	27.82
10785	CH2	TRP	B	623	26.365	1.634	25.970	1.00	27.64
10786	CZ2	TRP	B	623	26.241	2.959	26.389	1.00	31.72
10787	C	TRP	B	623	19.868	4.879	27.437	1.00	13.87
10788	O	TRP	B	623	19.304	5.228	26.466	1.00	14.01
10789	N	SER	B	624	20.356	5.715	28.332	1.00	15.08
10790	CA	SER	B	624	20.324	7.228	28.267	1.00	14.65
10791	CB	SER	B	624	21.118	7.824	27.088	1.00	13.68
10792	OG	SER	B	624	21.297	9.207	27.238	1.00	16.96
10793	C	SER	B	624	18.901	7.767	28.385	1.00	12.76
10794	O	SER	B	624	18.336	7.692	29.411	1.00	13.72
10795	N	TYR	B	625	18.303	8.326	27.386	1.00	12.50
10796	CA	TYR	B	625	16.881	8.710	27.573	1.00	11.35
10797	CB	TYR	B	625	16.429	9.471	26.363	1.00	9.59
10798	CG	TYR	B	625	15.260	10.250	26.618	1.00	8.92
10799	CD1	TYR	B	625	15.330	11.598	26.713	1.00	7.68
10800	CE1	TYR	B	625	14.180	12.334	26.943	1.00	2.00
10801	CZ	TYR	B	625	13.004	11.692	27.035	1.00	5.37
10802	OH	TYR	B	625	11.840	12.359	27.343	1.00	9.55
10803	CE2	TYR	B	625	12.965	10.355	26.952	1.00	8.02

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10804	CD2	TYR	B	625	14.053	9.653	26.733	1.00	2.46
10805	C	TYR	B	625	16.152	7.393	27.682	1.00	10.71
10806	O	TYR	B	625	15.130	7.225	28.250	1.00	11.76
10807	N	GLY	B	626	16.743	6.422	27.117	1.00	12.51
10808	CA	GLY	B	626	16.144	5.125	27.130	1.00	13.93
10809	C	GLY	B	626	16.137	4.552	28.481	1.00	14.41
10810	O	GLY	B	626	15.285	3.715	28.710	1.00	13.46
10811	N	GLY	B	627	17.056	5.007	29.360	1.00	12.10
10812	CA	GLY	B	627	17.033	4.503	30.709	1.00	12.67
10813	C	GLY	B	627	15.999	5.173	31.569	1.00	11.98
10814	O	GLY	B	627	15.450	4.641	32.549	1.00	12.70
10815	N	TYR	B	628	15.798	6.407	31.235	1.00	11.94
10816	CA	TYR	B	628	14.775	7.198	31.859	1.00	13.84
10817	CB	TYR	B	628	14.916	8.597	31.257	1.00	13.91
10818	CG	TYR	B	628	13.859	9.583	31.712	1.00	18.57
10819	CD1	TYR	B	628	13.702	9.875	33.021	1.00	18.31
10820	CE1	TYR	B	628	12.819	10.794	33.393	1.00	20.56
10821	CZ	TYR	B	628	12.081	11.420	32.463	1.00	18.09
10822	OH	TYR	B	628	11.215	12.378	32.851	1.00	17.87
10823	CE2	TYR	B	628	12.231	11.157	31.183	1.00	17.69
10824	CD2	TYR	B	628	13.121	10.292	30.807	1.00	17.79
10825	C	TYR	B	628	13.461	6.465	31.613	1.00	12.71
10826	O	TYR	B	628	12.838	6.007	32.528	1.00	12.77
10827	N	VAL	B	629	13.138	6.196	30.368	1.00	13.14
10828	CA	VAL	B	629	11.853	5.708	30.036	1.00	13.23
10829	CB	VAL	B	629	11.644	5.861	28.578	1.00	14.97
10830	CG1	VAL	B	629	10.195	5.547	28.141	1.00	13.17
10831	CG2	VAL	B	629	11.846	7.281	28.173	1.00	16.11
10832	C	VAL	B	629	11.723	4.248	30.456	1.00	14.51
10833	O	VAL	B	629	10.712	3.825	31.002	1.00	13.98
10834	N	SER	B	630	12.740	3.463	30.207	1.00	13.67
10835	CA	SER	B	630	12.735	2.147	30.645	1.00	13.62
10836	CB	SER	B	630	14.089	1.533	30.424	1.00	14.67
10837	OG	SER	B	630	14.087	0.160	30.822	1.00	20.20
10838	C	SER	B	630	12.366	2.094	32.108	1.00	14.35
10839	O	SER	B	630	11.458	1.366	32.520	1.00	14.78
10840	N	SER	B	631	13.065	2.860	32.910	1.00	12.97
10841	CA	SER	B	631	12.706	2.976	34.308	1.00	13.53
10842	CB	SER	B	631	13.738	3.890	34.926	1.00	13.59
10843	OG	SER	B	631	15.058	3.388	34.680	1.00	13.67
10844	C	SER	B	631	11.265	3.466	34.684	1.00	14.36
10845	O	SER	B	631	10.637	2.924	35.564	1.00	15.39
10846	N	LEU	B	632	10.755	4.517	34.023	1.00	15.30
10847	CA	LEU	B	632	9.492	5.159	34.386	1.00	14.35
10848	CB	LEU	B	632	9.312	6.441	33.635	1.00	13.48
10849	CG	LEU	B	632	10.074	7.625	34.062	1.00	15.69
10850	CD1	LEU	B	632	10.192	8.517	32.909	1.00	16.49
10851	CD2	LEU	B	632	9.545	8.379	35.226	1.00	18.29
10852	C	LEU	B	632	8.326	4.297	34.015	1.00	15.02
10853	O	LEU	B	632	7.262	4.332	34.679	1.00	16.98
10854	N	ALA	B	633	8.474	3.684	32.852	1.00	16.13

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10855	CA	ALA	B	633	7.732	2.472	32.416	1.00	16.28
10856	CB	ALA	B	633	8.387	1.839	31.225	1.00	15.25
10857	C	ALA	B	633	7.662	1.431	33.451	1.00	15.58
10858	O	ALA	B	633	6.571	0.929	33.804	1.00	16.99
10859	N	LEU	B	634	8.840	0.981	33.858	1.00	15.42
10860	CA	LEU	B	634	8.900	-0.253	34.691	1.00	13.34
10861	CB	LEU	B	634	10.309	-0.546	35.095	1.00	12.60
10862	CG	LEU	B	634	10.506	-1.780	35.947	1.00	9.15
10863	CD1	LEU	B	634	9.869	-2.968	35.255	1.00	4.03
10864	CD2	LEU	B	634	12.001	-1.968	36.035	1.00	10.97
10865	C	LEU	B	634	8.139	-0.002	35.945	1.00	13.36
10866	O	LEU	B	634	7.527	-0.860	36.515	1.00	11.78
10867	N	ALA	B	635	8.219	1.251	36.324	1.00	14.15
10868	CA	ALA	B	635	7.674	1.776	37.536	1.00	15.68
10869	CB	ALA	B	635	8.749	2.765	38.202	1.00	14.92
10870	C	ALA	B	635	6.404	2.508	37.289	1.00	16.82
10871	O	ALA	B	635	6.052	3.398	38.056	1.00	18.42
10872	N	SER	B	636	5.690	2.136	36.257	1.00	17.88
10873	CA	SER	B	636	4.443	2.873	35.905	1.00	19.89
10874	CB	SER	B	636	4.168	2.857	34.411	1.00	19.95
10875	OG	SER	B	636	3.755	1.535	34.067	1.00	20.72
10876	C	SER	B	636	3.247	2.296	36.600	1.00	20.40
10877	O	SER	B	636	2.140	2.830	36.448	1.00	21.51
10878	N	GLY	B	637	3.456	1.186	37.321	1.00	21.55
10879	CA	GLY	B	637	2.429	0.565	38.186	1.00	23.00
10880	C	GLY	B	637	1.343	0.009	37.321	1.00	23.81
10881	O	GLY	B	637	0.205	0.419	37.402	1.00	26.64
10882	N	THR	B	638	1.741	-0.927	36.471	1.00	23.82
10883	CA	THR	B	638	0.986	-1.375	35.289	1.00	22.97
10884	CB	THR	B	638	1.709	-0.765	34.031	1.00	23.26
10885	OG1	THR	B	638	0.827	-0.701	32.919	1.00	25.33
10886	CG2	THR	B	638	2.911	-1.601	33.501	1.00	21.65
10887	C	THR	B	638	0.928	-2.910	35.175	1.00	22.03
10888	O	THR	B	638	0.205	-3.438	34.381	1.00	22.80
10889	N	GLY	B	639	1.770	-3.609	35.883	1.00	20.15
10890	CA	GLY	B	639	1.806	-5.038	35.749	1.00	19.72
10891	C	GLY	B	639	2.431	-5.638	34.500	1.00	19.51
10892	O	GLY	B	639	2.795	-6.810	34.489	1.00	19.35
10893	N	LEU	B	640	2.585	-4.871	33.441	1.00	18.87
10894	CA	LEU	B	640	3.008	-5.467	32.157	1.00	17.93
10895	CB	LEU	B	640	2.932	-4.408	31.063	1.00	16.43
10896	CG	LEU	B	640	1.567	-3.808	30.696	1.00	14.56
10897	CD1	LEU	B	640	1.813	-2.637	29.719	1.00	2.00
10898	CD2	LEU	B	640	0.562	-4.876	30.138	1.00	2.00
10899	C	LEU	B	640	4.450	-5.965	32.205	1.00	18.16
10900	O	LEU	B	640	4.786	-7.061	31.714	1.00	19.12
10901	N	PHE	B	641	5.288	-5.112	32.799	1.00	17.60
10902	CA	PHE	B	641	6.732	-5.291	32.837	1.00	16.58
10903	CB	PHE	B	641	7.347	-3.980	32.750	1.00	14.66
10904	CG	PHE	B	641	7.233	-3.383	31.400	1.00	16.16
10905	CD1	PHE	B	641	7.706	-4.075	30.271	1.00	17.64

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10906	CE1	PHE	B	641	7.620	-3.461	28.998	1.00	16.53
10907	CZ	PHE	B	641	6.984	-2.201	28.916	1.00	14.59
10908	CE2	PHE	B	641	6.528	-1.552	30.053	1.00	11.09
10909	CD2	PHE	B	641	6.668	-2.111	31.234	1.00	14.28
10910	C	PHE	B	641	7.119	-5.968	34.111	1.00	16.40
10911	O	PHE	B	641	6.826	-5.428	35.169	1.00	16.72
10912	N	LYS	B	642	7.726	-7.156	33.980	1.00	15.24
10913	CA	LYS	B	642	8.065	-7.967	35.111	1.00	15.77
10914	CB	LYS	B	642	7.879	-9.480	34.826	1.00	15.73
10915	CG	LYS	B	642	9.169	-10.282	34.641	1.00	15.77
10916	CD	LYS	B	642	9.559	-11.042	35.916	1.00	13.44
10917	CE	LYS	B	642	8.953	-12.468	35.919	1.00	13.53
10918	NZ	LYS	B	642	9.881	-13.658	35.716	1.00	9.82
10919	C	LYS	B	642	9.480	-7.654	35.509	1.00	15.24
10920	O	LYS	B	642	9.863	-7.873	36.663	1.00	14.44
10921	N	CYS	B	643	10.271	-7.185	34.541	1.00	15.85
10922	CA	CYS	B	643	11.596	-6.684	34.823	1.00	14.84
10923	CB	CYS	B	643	12.606	-7.826	34.882	1.00	15.64
10924	SG	CYS	B	643	12.999	-8.787	33.405	1.00	20.35
10925	C	CYS	B	643	11.972	-5.631	33.883	1.00	13.77
10926	O	CYS	B	643	11.184	-5.309	32.999	1.00	14.12
10927	N	GLY	B	644	13.122	-4.997	34.114	1.00	11.97
10928	CA	GLY	B	644	13.538	-3.874	33.238	1.00	10.61
10929	C	GLY	B	644	14.981	-3.368	33.494	1.00	9.49
10930	O	GLY	B	644	15.523	-3.434	34.600	1.00	9.06
10931	N	ILE	B	645	15.638	-2.883	32.488	1.00	10.02
10932	CA	ILE	B	645	16.973	-2.329	32.708	1.00	11.44
10933	CB	ILE	B	645	17.900	-3.057	31.918	1.00	11.20
10934	CG1	ILE	B	645	17.741	-4.573	32.183	1.00	12.42
10935	CD1	ILE	B	645	18.525	-5.515	31.197	1.00	4.80
10936	CG2	ILE	B	645	19.307	-2.582	32.241	1.00	11.37
10937	C	ILE	B	645	17.149	-0.838	32.403	1.00	11.91
10938	O	ILE	B	645	16.405	-0.250	31.624	1.00	12.53
10939	N	ALA	B	646	18.083	-0.199	33.076	1.00	13.77
10940	CA	ALA	B	646	18.314	1.230	32.768	1.00	14.80
10941	CB	ALA	B	646	17.688	2.144	33.848	1.00	12.64
10942	C	ALA	B	646	19.779	1.464	32.736	1.00	15.22
10943	O	ALA	B	646	20.367	1.374	33.783	1.00	16.48
10944	N	VAL	B	647	20.364	1.823	31.582	1.00	14.70
10945	CA	VAL	B	647	21.813	1.886	31.470	1.00	14.13
10946	CB	VAL	B	647	22.294	1.091	30.326	1.00	13.41
10947	CG1	VAL	B	647	23.626	1.472	30.030	1.00	12.64
10948	CG2	VAL	B	647	22.236	-0.385	30.630	1.00	10.10
10949	C	VAL	B	647	22.083	3.343	31.346	1.00	15.40
10950	O	VAL	B	647	21.771	3.965	30.373	1.00	15.05
10951	N	ALA	B	648	22.603	3.923	32.384	1.00	14.41
10952	CA	ALA	B	648	22.952	5.341	32.367	1.00	12.90
10953	CB	ALA	B	648	24.070	5.613	31.433	1.00	11.24
10954	C	ALA	B	648	21.797	6.260	32.119	1.00	12.84
10955	O	ALA	B	648	21.903	7.144	31.315	1.00	15.32
10956	N	PRO	B	649	20.687	6.093	32.858	1.00	11.64

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
10957	CA	PRO	B	649	19.530	6.960	32.735	1.00	10.07
10958	CB	PRO	B	649	18.630	6.386	33.727	1.00	7.59
10959	CG	PRO	B	649	19.649	5.944	34.789	1.00	7.61
10960	CD	PRO	B	649	20.518	5.108	33.942	1.00	10.80
10961	C	PRO	B	649	19.721	8.429	33.156	1.00	12.36
10962	O	PRO	B	649	20.299	8.749	34.143	1.00	12.12
10963	N	VAL	B	650	19.131	9.358	32.439	1.00	12.34
10964	CA	VAL	B	650	18.678	10.532	33.091	1.00	12.75
10965	CB	VAL	B	650	18.003	11.450	32.123	1.00	13.30
10966	CG1	VAL	B	650	17.386	12.603	32.802	1.00	9.93
10967	CG2	VAL	B	650	19.023	11.963	31.111	1.00	11.41
10968	C	VAL	B	650	17.716	10.064	34.168	1.00	15.03
10969	O	VAL	B	650	16.953	9.089	33.965	1.00	16.87
10970	N	SER	B	651	17.821	10.634	35.388	1.00	14.40
10971	CA	SER	B	651	16.850	10.307	36.439	1.00	11.17
10972	CB	SER	B	651	17.511	9.771	37.710	1.00	9.64
10973	OG	SER	B	651	18.133	10.865	38.383	1.00	18.93
10974	C	SER	B	651	16.082	11.542	36.808	1.00	10.86
10975	O	SER	B	651	15.086	11.427	37.453	1.00	9.36
10976	N	SER	B	652	16.556	12.707	36.423	1.00	10.06
10977	CA	SER	B	652	15.777	13.938	36.514	1.00	10.98
10978	CB	SER	B	652	15.609	14.424	37.965	1.00	11.44
10979	OG	SER	B	652	15.702	15.859	38.121	1.00	15.12
10980	C	SER	B	652	16.382	15.074	35.761	1.00	10.82
10981	O	SER	B	652	17.634	15.211	35.636	1.00	7.64
10982	N	TRP	B	653	15.480	15.969	35.349	1.00	10.10
10983	CA	TRP	B	653	15.855	16.934	34.276	1.00	11.33
10984	CB	TRP	B	653	14.637	17.341	33.435	1.00	7.74
10985	CG	TRP	B	653	14.230	16.192	32.563	1.00	8.92
10986	CD1	TRP	B	653	13.054	15.366	32.673	1.00	8.62
10987	NE1	TRP	B	653	13.084	14.379	31.716	1.00	8.65
10988	CE2	TRP	B	653	14.277	14.510	31.009	1.00	5.16
10989	CD2	TRP	B	653	15.005	15.605	31.536	1.00	5.52
10990	CE3	TRP	B	653	16.218	15.951	30.917	1.00	14.25
10991	CZ3	TRP	B	653	16.740	15.129	29.882	1.00	13.53
10992	CH2	TRP	B	653	16.007	14.038	29.414	1.00	12.64
10993	CZ2	TRP	B	653	14.784	13.720	29.973	1.00	12.81
10994	C	TRP	B	653	16.704	18.062	34.872	1.00	12.21
10995	O	TRP	B	653	17.337	18.808	34.221	1.00	13.44
10996	N	GLU	B	654	16.802	18.082	36.154	1.00	11.12
10997	CA	GLU	B	654	17.586	19.033	36.800	1.00	12.74
10998	CB	GLU	B	654	17.050	19.027	38.231	1.00	14.13
10999	CG	GLU	B	654	17.693	20.084	39.136	1.00	17.67
11000	CD	GLU	B	654	17.438	19.866	40.612	1.00	22.31
11001	OE1	GLU	B	654	16.801	18.822	41.089	1.00	26.02
11002	OE2	GLU	B	654	17.865	20.809	41.279	1.00	23.34
11003	C	GLU	B	654	19.053	18.695	36.667	1.00	12.43
11004	O	GLU	B	654	19.905	19.527	36.680	1.00	15.41
11005	N	TYR	B	655	19.345	17.449	36.479	1.00	13.21
11006	CA	TYR	B	655	20.663	16.985	36.442	1.00	14.32
11007	CB	TYR	B	655	20.667	15.540	36.994	1.00	15.89

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11008	CG	TYR	B	655	20.147	15.327	38.425	1.00	9.90
11009	CD1	TYR	B	655	20.247	16.313	39.351	1.00	11.29
11010	CE1	TYR	B	655	19.809	16.166	40.619	1.00	11.83
11011	CZ	TYR	B	655	19.325	14.940	41.061	1.00	12.75
11012	OH	TYR	B	655	18.894	14.848	42.444	1.00	12.90
11013	CE2	TYR	B	655	19.218	13.910	40.131	1.00	8.72
11014	CD2	TYR	B	655	19.633	14.125	38.825	1.00	8.04
11015	C	TYR	B	655	21.262	17.042	35.031	1.00	14.99
11016	O	TYR	B	655	22.518	17.079	34.887	1.00	17.03
11017	N	TYR	B	656	20.469	17.212	33.981	1.00	13.87
11018	CA	TYR	B	656	21.043	17.222	32.639	1.00	13.04
11019	CB	TYR	B	656	20.184	16.426	31.732	1.00	11.71
11020	CG	TYR	B	656	20.876	16.003	30.535	1.00	14.82
11021	CD1	TYR	B	656	20.428	16.338	29.282	1.00	16.99
11022	CE1	TYR	B	656	21.124	15.889	28.133	1.00	13.64
11023	CZ	TYR	B	656	22.252	15.135	28.294	1.00	15.24
11024	OH	TYR	B	656	22.989	14.720	27.257	1.00	16.93
11025	CE2	TYR	B	656	22.700	14.812	29.519	1.00	14.14
11026	CD2	TYR	B	656	22.010	15.235	30.621	1.00	19.28
11027	C	TYR	B	656	21.330	18.579	32.074	1.00	13.90
11028	O	TYR	B	656	20.963	19.639	32.628	1.00	12.67
11029	N	ALA	B	657	22.079	18.565	30.981	1.00	14.24
11030	CA	ALA	B	657	22.565	19.783	30.346	1.00	15.10
11031	CB	ALA	B	657	23.370	19.377	29.130	1.00	15.98
11032	C	ALA	B	657	21.440	20.767	29.941	1.00	15.12
11033	O	ALA	B	657	20.385	20.307	29.415	1.00	16.10
11034	N	SER	B	658	21.675	22.073	30.171	1.00	13.31
11035	CA	SER	B	658	20.716	23.102	29.861	1.00	11.21
11036	CB	SER	B	658	21.265	24.522	30.200	1.00	13.49
11037	OG	SER	B	658	22.578	24.842	29.666	1.00	11.46
11038	C	SER	B	658	20.277	23.109	28.412	1.00	11.53
11039	O	SER	B	658	19.108	23.005	28.101	1.00	8.60
11040	N	VAL	B	659	21.210	23.308	27.504	1.00	10.57
11041	CA	VAL	B	659	20.886	23.320	26.041	1.00	10.59
11042	CB	VAL	B	659	22.156	23.222	25.286	1.00	10.83
11043	CG1	VAL	B	659	21.987	23.300	23.808	1.00	9.37
11044	CG2	VAL	B	659	23.134	24.344	25.750	1.00	10.62
11045	C	VAL	B	659	19.908	22.124	25.633	1.00	11.52
11046	O	VAL	B	659	18.946	22.280	24.917	1.00	10.80
11047	N	TYR	B	660	20.101	20.952	26.163	1.00	12.24
11048	CA	TYR	B	660	19.237	19.871	25.746	1.00	12.75
11049	CB	TYR	B	660	19.909	18.538	25.994	1.00	13.76
11050	CG	TYR	B	660	19.046	17.359	25.703	1.00	16.74
11051	CD1	TYR	B	660	19.309	16.526	24.630	1.00	16.31
11052	CE1	TYR	B	660	18.524	15.416	24.383	1.00	14.71
11053	CZ	TYR	B	660	17.507	15.149	25.167	1.00	19.80
11054	OH	TYR	B	660	16.735	14.014	24.968	1.00	25.34
11055	CE2	TYR	B	660	17.251	15.952	26.234	1.00	21.69
11056	CD2	TYR	B	660	18.002	17.036	26.513	1.00	13.65
11057	C	TYR	B	660	17.920	19.973	26.440	1.00	12.25
11058	O	TYR	B	660	16.905	20.196	25.810	1.00	15.38

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11059	N	THR	B	661	17.952	19.902	27.745	1.00	12.21
11060	CA	THR	B	661	16.847	19.947	28.600	1.00	10.79
11061	CB	THR	B	661	17.361	19.811	30.111	1.00	11.43
11062	OG1	THR	B	661	18.163	18.580	30.293	1.00	16.14
11063	CG2	THR	B	661	16.227	19.607	31.114	1.00	4.01
11064	C	THR	B	661	15.915	21.129	28.355	1.00	11.51
11065	O	THR	B	661	14.718	20.955	28.186	1.00	12.08
11066	N	GLU	B	662	16.404	22.330	28.313	1.00	10.59
11067	CA	GLU	B	662	15.492	23.457	28.226	1.00	11.12
11068	CB	GLU	B	662	16.267	24.764	28.507	1.00	12.32
11069	CG	GLU	B	662	17.086	24.767	29.814	1.00	12.28
11070	CD	GLU	B	662	17.808	26.112	30.028	1.00	13.71
11071	OE1	GLU	B	662	17.718	27.017	29.157	1.00	21.30
11072	OE2	GLU	B	662	18.408	26.269	31.120	1.00	12.78
11073	C	GLU	B	662	14.801	23.523	26.840	1.00	10.95
11074	O	GLU	B	662	13.839	24.248	26.629	1.00	11.18
11075	N	ARG	B	663	15.395	22.868	25.850	1.00	10.88
11076	CA	ARG	B	663	14.902	22.912	24.505	1.00	10.77
11077	CB	ARG	B	663	15.841	22.064	23.674	1.00	11.84
11078	CG	ARG	B	663	15.620	22.018	22.223	1.00	11.27
11079	CD	ARG	B	663	16.874	21.869	21.411	1.00	16.12
11080	NE	ARG	B	663	16.564	21.633	20.003	1.00	19.40
11081	CZ	ARG	B	663	16.338	22.621	19.082	1.00	24.41
11082	NH1	ARG	B	663	16.065	22.286	17.799	1.00	18.20
11083	NH2	ARG	B	663	16.375	23.912	19.427	1.00	22.93
11084	C	ARG	B	663	13.532	22.220	24.528	1.00	10.94
11085	O	ARG	B	663	12.599	22.598	23.787	1.00	12.25
11086	N	PHE	B	664	13.411	21.218	25.391	1.00	10.61
11087	CA	PHE	B	664	12.240	20.372	25.355	1.00	11.31
11088	CB	PHE	B	664	12.646	18.904	25.183	1.00	10.87
11089	CG	PHE	B	664	13.647	18.693	24.107	1.00	9.36
11090	CD1	PHE	B	664	13.350	18.977	22.819	1.00	8.83
11091	CE1	PHE	B	664	14.252	18.774	21.776	1.00	10.78
11092	CZ	PHE	B	664	15.547	18.341	22.058	1.00	12.32
11093	CE2	PHE	B	664	15.858	18.107	23.400	1.00	12.25
11094	CD2	PHE	B	664	14.859	18.279	24.396	1.00	10.72
11095	C	PHE	B	664	11.432	20.503	26.628	1.00	11.52
11096	O	PHE	B	664	10.290	20.112	26.608	1.00	10.66
11097	N	MET	B	665	12.007	21.142	27.682	1.00	11.28
11098	CA	MET	B	665	11.351	21.328	28.956	1.00	10.41
11099	CB	MET	B	665	12.109	20.683	30.094	1.00	8.21
11100	CG	MET	B	665	12.150	19.276	30.132	1.00	9.17
11101	SD	MET	B	665	10.619	18.725	30.888	1.00	12.87
11102	CE	MET	B	665	10.667	19.297	32.656	1.00	4.39
11103	C	MET	B	665	11.241	22.734	29.382	1.00	9.93
11104	O	MET	B	665	10.778	22.890	30.418	1.00	9.74
11105	N	GLY	B	666	11.583	23.750	28.617	1.00	10.88
11106	CA	GLY	B	666	11.661	25.138	29.107	1.00	12.07
11107	C	GLY	B	666	12.520	25.253	30.398	1.00	12.97
11108	O	GLY	B	666	13.321	24.293	30.682	1.00	10.87
11109	N	LEU	B	667	12.264	26.289	31.242	1.00	14.37

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11110	CA	LEU	B	667	13.114	26.467	32.450	1.00	15.90
11111	CB	LEU	B	667	13.347	27.951	32.787	1.00	15.85
11112	CG	LEU	B	667	14.087	28.934	31.918	1.00	18.29
11113	CD1	LEU	B	667	13.184	30.222	31.684	1.00	25.65
11114	CD2	LEU	B	667	14.481	28.302	30.596	1.00	24.30
11115	C	LEU	B	667	12.548	25.924	33.745	1.00	16.29
11116	O	LEU	B	667	11.362	26.129	33.982	1.00	14.01
11117	N	PRO	B	668	13.409	25.371	34.637	1.00	16.73
11118	CA	PRO	B	668	12.980	24.979	35.971	1.00	16.30
11119	CB	PRO	B	668	14.085	24.032	36.465	1.00	16.10
11120	CG	PRO	B	668	15.340	24.524	35.802	1.00	16.84
11121	CD	PRO	B	668	14.843	25.095	34.452	1.00	16.32
11122	C	PRO	B	668	12.795	26.199	36.875	1.00	17.30
11123	O	PRO	B	668	13.222	26.200	38.057	1.00	17.71
11124	N	THR	B	669	12.058	27.171	36.354	1.00	16.66
11125	CA	THR	B	669	11.448	28.107	37.213	1.00	18.78
11126	CB	THR	B	669	11.551	29.547	36.545	1.00	19.16
11127	OG1	THR	B	669	10.804	29.620	35.326	1.00	17.44
11128	CG2	THR	B	669	12.979	29.788	36.068	1.00	21.00
11129	C	THR	B	669	9.990	27.695	37.673	1.00	19.73
11130	O	THR	B	669	9.201	27.056	36.931	1.00	20.06
11131	N	LYS	B	670	9.699	27.979	38.947	1.00	20.18
11132	CA	LYS	B	670	8.332	28.454	39.404	1.00	20.91
11133	CB	LYS	B	670	8.385	29.322	40.720	1.00	20.46
11134	CG	LYS	B	670	9.311	30.643	40.692	1.00	22.54
11135	CD	LYS	B	670	10.950	30.398	40.477	1.00	20.34
11136	CE	LYS	B	670	11.754	31.691	40.105	1.00	17.84
11137	NZ	LYS	B	670	12.947	31.439	39.225	1.00	19.56
11138	C	LYS	B	670	7.446	29.165	38.368	1.00	20.40
11139	O	LYS	B	670	6.324	28.741	38.204	1.00	19.64
11140	N	ASP	B	671	7.924	30.190	37.650	1.00	21.31
11141	CA	ASP	B	671	7.069	30.855	36.598	1.00	22.43
11142	CB	ASP	B	671	7.420	32.362	36.387	1.00	23.67
11143	CG	ASP	B	671	7.582	33.147	37.713	1.00	28.11
11144	OD1	ASP	B	671	8.677	33.719	37.976	1.00	31.29
11145	OD2	ASP	B	671	6.669	33.206	38.561	1.00	31.86
11146	C	ASP	B	671	7.075	30.210	35.219	1.00	21.67
11147	O	ASP	B	671	6.529	30.698	34.292	1.00	23.72
11148	N	ASP	B	672	7.770	29.134	35.051	1.00	20.52
11149	CA	ASP	B	672	7.778	28.385	33.798	1.00	19.70
11150	CB	ASP	B	672	9.161	28.467	33.144	1.00	19.80
11151	CG	ASP	B	672	9.123	28.203	31.669	1.00	19.51
11152	OD1	ASP	B	672	9.979	28.717	30.874	1.00	26.67
11153	OD2	ASP	B	672	8.283	27.446	31.232	1.00	14.53
11154	C	ASP	B	672	7.359	26.941	34.101	1.00	17.75
11155	O	ASP	B	672	6.180	26.646	34.276	1.00	19.39
11156	N	ASN	B	673	8.280	26.055	34.186	1.00	14.08
11157	CA	ASN	B	673	7.943	24.646	34.107	1.00	12.44
11158	CB	ASN	B	673	8.383	24.093	32.763	1.00	12.67
11159	CG	ASN	B	673	7.720	22.783	32.434	1.00	11.01
11160	OD1	ASN	B	673	6.589	22.589	32.788	1.00	11.13

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11161	ND2	ASN	B	673	8.435	21.888	31.732	1.00	11.94
11162	C	ASN	B	673	8.537	23.808	35.208	1.00	11.52
11163	O	ASN	B	673	8.570	22.576	35.144	1.00	11.44
11164	N	LEU	B	674	8.887	24.455	36.300	1.00	11.77
11165	CA	LEU	B	674	9.421	23.665	37.412	1.00	13.14
11166	CB	LEU	B	674	9.897	24.535	38.549	1.00	12.35
11167	CG	LEU	B	674	10.268	24.050	39.942	1.00	13.61
11168	CD1	LEU	B	674	11.653	24.360	40.089	1.00	15.53
11169	CD2	LEU	B	674	9.488	24.823	41.024	1.00	18.10
11170	C	LEU	B	674	8.522	22.572	37.898	1.00	11.44
11171	O	LEU	B	674	9.067	21.540	38.268	1.00	10.81
11172	N	GLU	B	675	7.205	22.767	37.916	1.00	12.37
11173	CA	GLU	B	675	6.320	21.745	38.493	1.00	14.98
11174	CB	GLU	B	675	4.801	22.109	38.469	1.00	16.42
11175	CG	GLU	B	675	4.243	23.099	39.565	1.00	26.00
11176	CD	GLU	B	675	5.194	23.448	40.803	1.00	34.32
11177	OE1	GLU	B	675	5.978	24.498	40.734	1.00	32.63
11178	OE2	GLU	B	675	5.114	22.683	41.860	1.00	34.69
11179	C	GLU	B	675	6.611	20.420	37.783	1.00	14.61
11180	O	GLU	B	675	6.939	19.426	38.431	1.00	14.51
11181	N	HIS	B	676	6.679	20.439	36.453	1.00	14.42
11182	CA	HIS	B	676	7.043	19.242	35.725	1.00	14.11
11183	CB	HIS	B	676	6.748	19.300	34.233	1.00	13.08
11184	CG	HIS	B	676	6.667	17.932	33.645	1.00	13.79
11185	ND1	HIS	B	676	5.561	17.144	33.822	1.00	9.06
11186	CE1	HIS	B	676	5.775	15.953	33.269	1.00	11.12
11187	NE2	HIS	B	676	6.995	15.924	32.757	1.00	6.86
11188	CD2	HIS	B	676	7.610	17.127	33.058	1.00	13.35
11189	C	HIS	B	676	8.487	18.755	35.864	1.00	15.91
11190	O	HIS	B	676	8.715	17.523	35.707	1.00	17.04
11191	N	TYR	B	677	9.471	19.641	36.046	1.00	15.25
11192	CA	TYR	B	677	10.806	19.137	36.449	1.00	16.27
11193	CB	TYR	B	677	11.764	20.272	36.719	1.00	15.29
11194	CG	TYR	B	677	12.440	20.868	35.500	1.00	15.79
11195	CD1	TYR	B	677	13.676	20.444	35.147	1.00	17.80
11196	CE1	TYR	B	677	14.360	20.990	34.016	1.00	19.74
11197	CZ	TYR	B	677	13.748	21.976	33.237	1.00	18.46
11198	OH	TYR	B	677	14.533	22.409	32.171	1.00	8.17
11199	CE2	TYR	B	677	12.453	22.421	33.559	1.00	6.25
11200	CD2	TYR	B	677	11.797	21.847	34.676	1.00	12.90
11201	C	TYR	B	677	10.731	18.211	37.687	1.00	16.74
11202	O	TYR	B	677	11.292	17.106	37.664	1.00	19.04
11203	N	LYS	B	678	9.984	18.627	38.706	1.00	17.05
11204	CA	LYS	B	678	9.846	17.909	39.995	1.00	18.28
11205	CB	LYS	B	678	9.128	18.788	41.022	1.00	17.15
11206	CG	LYS	B	678	9.725	20.175	41.262	1.00	23.91
11207	CD	LYS	B	678	10.540	20.282	42.607	1.00	33.34
11208	CE	LYS	B	678	12.097	19.784	42.470	1.00	35.37
11209	NZ	LYS	B	678	13.132	20.551	43.346	1.00	34.82
11210	C	LYS	B	678	9.013	16.625	39.866	1.00	17.60
11211	O	LYS	B	678	9.205	15.621	40.605	1.00	19.14

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11212	N	ASN	B	679	8.093	16.703	38.931	1.00	15.74
11213	CA	ASN	B	679	7.073	15.761	38.789	1.00	16.51
11214	CB	ASN	B	679	5.691	16.367	38.352	1.00	16.23
11215	CG	ASN	B	679	4.545	15.386	38.675	1.00	20.45
11216	OD1	ASN	B	679	4.423	14.770	39.775	1.00	22.93
11217	ND2	ASN	B	679	3.609	15.301	37.701	1.00	29.40
11218	C	ASN	B	679	7.451	14.727	37.769	1.00	16.43
11219	O	ASN	B	679	6.583	13.899	37.498	1.00	16.78
11220	N	SER	B	680	8.690	14.768	37.198	1.00	16.20
11221	CA	SER	B	680	9.093	13.793	36.174	1.00	14.42
11222	CB	SER	B	680	9.270	14.548	34.850	1.00	15.21
11223	OG	SER	B	680	10.272	15.570	34.929	1.00	9.99
11224	C	SER	B	680	10.374	12.980	36.466	1.00	14.91
11225	O	SER	B	680	10.998	12.434	35.542	1.00	14.07
11226	N	THR	B	681	10.727	12.832	37.744	1.00	13.78
11227	CA	THR	B	681	11.977	12.156	38.110	1.00	13.54
11228	CB	THR	B	681	12.391	12.573	39.479	1.00	14.23
11229	OG1	THR	B	681	11.401	12.091	40.411	1.00	18.02
11230	CG2	THR	B	681	12.315	14.180	39.580	1.00	14.11
11231	C	THR	B	681	11.756	10.692	38.185	1.00	12.55
11232	O	THR	B	681	10.612	10.319	38.481	1.00	9.09
11233	N	VAL	B	682	12.788	9.820	37.967	1.00	10.49
11234	CA	VAL	B	682	12.472	8.426	38.225	1.00	10.93
11235	CB	VAL	B	682	13.333	7.342	37.529	1.00	13.23
11236	CG1	VAL	B	682	14.073	7.729	36.242	1.00	3.92
11237	CG2	VAL	B	682	14.290	6.717	38.514	1.00	12.14
11238	C	VAL	B	682	12.364	8.212	39.724	1.00	13.20
11239	O	VAL	B	682	11.619	7.368	40.143	1.00	14.80
11240	N	MET	B	683	13.039	9.011	40.555	1.00	14.38
11241	CA	MET	B	683	13.071	8.797	42.017	1.00	14.08
11242	CB	MET	B	683	13.910	9.796	42.807	1.00	14.33
11243	CG	MET	B	683	15.425	9.813	42.566	1.00	12.48
11244	SD	MET	B	683	16.035	10.322	40.890	1.00	13.58
11245	CE	MET	B	683	16.054	12.171	41.160	1.00	9.21
11246	C	MET	B	683	11.738	8.921	42.549	1.00	15.07
11247	O	MET	B	683	11.478	8.272	43.502	1.00	15.98
11248	N	ALA	B	684	10.842	9.703	41.968	1.00	14.19
11249	CA	ALA	B	684	9.490	9.817	42.590	1.00	14.00
11250	CB	ALA	B	684	8.748	11.096	42.114	1.00	13.56
11251	C	ALA	B	684	8.595	8.606	42.353	1.00	13.86
11252	O	ALA	B	684	7.465	8.549	42.866	1.00	13.69
11253	N	ARG	B	685	9.056	7.652	41.563	1.00	13.75
11254	CA	ARG	B	685	8.323	6.402	41.334	1.00	13.43
11255	CB	ARG	B	685	8.389	6.039	39.839	1.00	13.07
11256	CG	ARG	B	685	7.875	7.150	38.909	1.00	11.59
11257	CD	ARG	B	685	6.366	7.517	39.135	1.00	8.93
11258	NE	ARG	B	685	5.657	6.344	38.741	1.00	13.76
11259	CZ	ARG	B	685	4.397	6.028	39.068	1.00	11.12
11260	NH1	ARG	B	685	3.629	6.874	39.754	1.00	9.59
11261	NH2	ARG	B	685	3.906	4.876	38.627	1.00	9.21
11262	C	ARG	B	685	8.961	5.301	42.190	1.00	14.60

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11263	O	ARG	B	685	8.693	4.107	41.999	1.00	14.02
11264	N	ALA	B	686	9.851	5.712	43.107	1.00	15.11
11265	CA	ALA	B	686	10.639	4.758	43.873	1.00	14.89
11266	CB	ALA	B	686	11.266	5.425	45.082	1.00	15.16
11267	C	ALA	B	686	9.782	3.587	44.301	1.00	14.60
11268	O	ALA	B	686	10.132	2.419	44.044	1.00	13.19
11269	N	GLU	B	687	8.649	3.937	44.909	1.00	15.25
11270	CA	GLU	B	687	7.671	2.989	45.473	1.00	16.04
11271	CB	GLU	B	687	6.432	3.743	45.955	1.00	17.70
11272	CG	GLU	B	687	6.431	4.171	47.429	1.00	22.34
11273	CD	GLU	B	687	6.554	2.974	48.414	1.00	30.96
11274	OE1	GLU	B	687	7.385	3.139	49.382	1.00	32.58
11275	OE2	GLU	B	687	5.819	1.891	48.266	1.00	31.18
11276	C	GLU	B	687	7.230	1.926	44.498	1.00	16.05
11277	O	GLU	B	687	7.079	0.740	44.859	1.00	14.96
11278	N	TYR	B	688	7.036	2.337	43.247	1.00	16.23
11279	CA	TYR	B	688	6.487	1.423	42.282	1.00	17.36
11280	CB	TYR	B	688	5.746	2.176	41.204	1.00	17.66
11281	CG	TYR	B	688	4.703	3.097	41.765	1.00	19.88
11282	CD1	TYR	B	688	5.033	4.399	42.107	1.00	23.71
11283	CE1	TYR	B	688	4.096	5.295	42.625	1.00	24.59
11284	CZ	TYR	B	688	2.783	4.901	42.780	1.00	27.42
11285	OH	TYR	B	688	1.900	5.848	43.307	1.00	29.15
11286	CE2	TYR	B	688	2.417	3.593	42.424	1.00	28.34
11287	CD2	TYR	B	688	3.395	2.701	41.925	1.00	22.75
11288	C	TYR	B	688	7.480	0.395	41.731	1.00	17.18
11289	O	TYR	B	688	7.094	-0.498	40.978	1.00	17.29
11290	N	PHE	B	689	8.745	0.501	42.143	1.00	16.38
11291	CA	PHE	B	689	9.718	-0.494	41.787	1.00	15.97
11292	CB	PHE	B	689	11.096	0.080	41.905	1.00	15.41
11293	CG	PHE	B	689	11.491	0.936	40.774	1.00	15.54
11294	CD1	PHE	B	689	12.075	0.399	39.669	1.00	12.97
11295	CE1	PHE	B	689	12.466	1.211	38.630	1.00	16.88
11296	CZ	PHE	B	689	12.285	2.549	38.714	1.00	14.86
11297	CE2	PHE	B	689	11.697	3.102	39.781	1.00	16.55
11298	CD2	PHE	B	689	11.314	2.314	40.831	1.00	14.41
11299	C	PHE	B	689	9.653	-1.766	42.677	1.00	16.69
11300	O	PHE	B	689	10.371	-2.751	42.435	1.00	16.56
11301	N	ARG	B	690	8.844	-1.734	43.710	1.00	16.62
11302	CA	ARG	B	690	8.854	-2.835	44.665	1.00	18.42
11303	CB	ARG	B	690	7.989	-2.553	45.884	1.00	18.06
11304	CG	ARG	B	690	7.984	-3.798	46.898	1.00	19.85
11305	CD	ARG	B	690	7.785	-3.493	48.388	1.00	20.58
11306	NE	ARG	B	690	7.325	-2.118	48.543	1.00	22.64
11307	CZ	ARG	B	690	8.038	-1.124	49.029	1.00	22.08
11308	NH1	ARG	B	690	9.254	-1.322	49.511	1.00	18.01
11309	NH2	ARG	B	690	7.495	0.074	49.045	1.00	22.70
11310	C	ARG	B	690	8.468	-4.221	44.075	1.00	19.59
11311	O	ARG	B	690	8.981	-5.232	44.516	1.00	19.13
11312	N	ASN	B	691	7.611	-4.330	43.083	1.00	20.04
11313	CA	ASN	B	691	7.328	-5.722	42.653	1.00	21.21

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11314	CB	ASN	B	691	5.851	-6.089	42.754	1.00	21.71
11315	CG	ASN	B	691	5.029	-4.923	43.137	1.00	26.21
11316	OD1	ASN	B	691	4.349	-4.973	44.176	1.00	28.62
11317	ND2	ASN	B	691	5.137	-3.781	42.338	1.00	33.67
11318	C	ASN	B	691	7.852	-5.977	41.275	1.00	19.91
11319	O	ASN	B	691	7.270	-6.682	40.512	1.00	21.96
11320	N	VAL	B	692	8.992	-5.432	40.974	1.00	18.39
11321	CA	VAL	B	692	9.622	-5.711	39.710	1.00	16.73
11322	CB	VAL	B	692	9.278	-4.618	38.745	1.00	17.91
11323	CG1	VAL	B	692	9.743	-3.237	39.292	1.00	15.84
11324	CG2	VAL	B	692	7.744	-4.659	38.405	1.00	17.63
11325	C	VAL	B	692	11.115	-5.788	39.892	1.00	15.33
11326	O	VAL	B	692	11.665	-5.303	40.850	1.00	14.25
11327	N	ASP	B	693	11.795	-6.384	38.935	1.00	14.90
11328	CA	ASP	B	693	13.244	-6.499	39.032	1.00	15.49
11329	CB	ASP	B	693	13.776	-7.730	38.370	1.00	16.41
11330	CG	ASP	B	693	13.231	-8.985	38.900	1.00	20.08
11331	OD1	ASP	B	693	13.857	-9.960	38.379	1.00	25.28
11332	OD2	ASP	B	693	12.234	-9.116	39.710	1.00	22.37
11333	C	ASP	B	693	13.835	-5.434	38.199	1.00	13.89
11334	O	ASP	B	693	13.634	-5.436	37.051	1.00	14.23
11335	N	TYR	B	694	14.609	-4.590	38.804	1.00	13.45
11336	CA	TYR	B	694	15.220	-3.466	38.165	1.00	13.21
11337	CB	TYR	B	694	14.946	-2.259	39.041	1.00	12.96
11338	CG	TYR	B	694	15.330	-0.981	38.467	1.00	13.72
11339	CD1	TYR	B	694	15.242	-0.748	37.130	1.00	14.38
11340	CE1	TYR	B	694	15.559	0.474	36.624	1.00	10.56
11341	CZ	TYR	B	694	16.004	1.503	37.456	1.00	12.63
11342	OH	TYR	B	694	16.334	2.728	36.932	1.00	11.60
11343	CE2	TYR	B	694	16.111	1.328	38.762	1.00	15.91
11344	CD2	TYR	B	694	15.780	0.047	39.282	1.00	17.57
11345	C	TYR	B	694	16.685	-3.757	38.108	1.00	12.65
11346	O	TYR	B	694	17.296	-4.159	39.087	1.00	13.36
11347	N	LEU	B	695	17.297	-3.597	36.968	1.00	13.05
11348	CA	LEU	B	695	18.758	-3.693	36.972	1.00	12.92
11349	CB	LEU	B	695	19.192	-4.834	36.111	1.00	11.78
11350	CG	LEU	B	695	20.642	-4.803	35.597	1.00	12.96
11351	CD1	LEU	B	695	21.687	-4.993	36.693	1.00	3.65
11352	CD2	LEU	B	695	20.676	-5.937	34.626	1.00	13.12
11353	C	LEU	B	695	19.284	-2.362	36.477	1.00	13.22
11354	O	LEU	B	695	18.892	-1.893	35.464	1.00	13.37
11355	N	LEU	B	696	20.168	-1.740	37.224	1.00	12.81
11356	CA	LEU	B	696	20.437	-0.304	37.038	1.00	12.70
11357	CB	LEU	B	696	20.051	0.431	38.258	1.00	12.45
11358	CG	LEU	B	696	20.552	1.798	38.406	1.00	10.94
11359	CD1	LEU	B	696	19.737	2.572	37.420	1.00	13.20
11360	CD2	LEU	B	696	20.290	2.328	39.749	1.00	6.07
11361	C	LEU	B	696	21.911	-0.164	36.975	1.00	13.18
11362	O	LEU	B	696	22.581	-0.449	37.963	1.00	12.60
11363	N	ILE	B	697	22.379	0.393	35.838	1.00	14.52
11364	CA	ILE	B	697	23.761	0.354	35.409	1.00	15.51

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11365	CB	ILE	B	697	23.822	-0.542	34.207	1.00	15.10
11366	CG1	ILE	B	697	23.168	-1.834	34.571	1.00	15.05
11367	CD1	ILE	B	697	23.375	-2.941	33.585	1.00	16.09
11368	CG2	ILE	B	697	25.276	-0.847	33.770	1.00	16.53
11369	C	ILE	B	697	24.256	1.764	35.108	1.00	15.66
11370	O	ILE	B	697	23.521	2.581	34.556	1.00	18.53
11371	N	HIS	B	698	25.473	2.067	35.492	1.00	15.16
11372	CA	HIS	B	698	26.091	3.307	35.051	1.00	14.44
11373	CB	HIS	B	698	25.563	4.343	35.910	1.00	13.92
11374	CG	HIS	B	698	25.283	5.642	35.254	1.00	14.08
11375	ND1	HIS	B	698	24.124	6.319	35.544	1.00	14.40
11376	CE1	HIS	B	698	24.148	7.518	34.972	1.00	9.32
11377	NE2	HIS	B	698	25.295	7.643	34.320	1.00	13.56
11378	CD2	HIS	B	698	26.059	6.509	34.540	1.00	16.81
11379	C	HIS	B	698	27.627	3.357	35.170	1.00	13.55
11380	O	HIS	B	698	28.292	2.742	36.070	1.00	15.04
11381	N	GLY	B	699	28.204	4.110	34.254	1.00	11.85
11382	CA	GLY	B	699	29.564	4.542	34.381	1.00	11.63
11383	C	GLY	B	699	29.833	5.555	35.429	1.00	10.24
11384	O	GLY	B	699	29.133	6.538	35.437	1.00	12.39
11385	N	THR	B	700	30.927	5.390	36.180	1.00	9.89
11386	CA	THR	B	700	31.272	6.344	37.202	1.00	9.96
11387	CB	THR	B	700	32.078	5.800	38.329	1.00	7.35
11388	OG1	THR	B	700	33.373	5.474	37.898	1.00	8.78
11389	CG2	THR	B	700	31.529	4.451	38.792	1.00	6.45
11390	C	THR	B	700	31.993	7.516	36.567	1.00	11.55
11391	O	THR	B	700	32.271	8.501	37.254	1.00	12.27
11392	N	ALA	B	701	32.224	7.532	35.276	1.00	12.07
11393	CA	ALA	B	701	32.835	8.795	34.717	1.00	13.95
11394	CB	ALA	B	701	34.370	8.660	34.567	1.00	13.57
11395	C	ALA	B	701	32.227	9.244	33.441	1.00	12.90
11396	O	ALA	B	701	32.915	9.455	32.463	1.00	14.83
11397	N	ASP	B	702	30.915	9.409	33.529	1.00	12.34
11398	CA	ASP	B	702	30.008	9.816	32.533	1.00	11.55
11399	CB	ASP	B	702	28.719	9.134	32.869	1.00	11.52
11400	CG	ASP	B	702	27.768	8.998	31.692	1.00	17.21
11401	OD1	ASP	B	702	27.798	9.883	30.819	1.00	22.51
11402	OD2	ASP	B	702	26.919	8.060	31.632	1.00	19.18
11403	C	ASP	B	702	29.928	11.315	32.704	1.00	13.12
11404	O	ASP	B	702	29.402	11.952	33.656	1.00	12.71
11405	N	ASP	B	703	30.523	11.914	31.729	1.00	14.30
11406	CA	ASP	B	703	30.661	13.295	31.698	1.00	15.29
11407	CB	ASP	B	703	31.884	13.562	30.849	1.00	15.67
11408	CG	ASP	B	703	31.746	12.943	29.427	1.00	19.77
11409	OD1	ASP	B	703	32.081	11.688	29.140	1.00	20.07
11410	OD2	ASP	B	703	31.282	13.730	28.552	1.00	22.66
11411	C	ASP	B	703	29.357	13.820	31.096	1.00	14.53
11412	O	ASP	B	703	29.112	14.975	31.158	1.00	15.56
11413	N	ASN	B	704	28.432	12.984	30.678	1.00	14.70
11414	CA	ASN	B	704	27.293	13.472	29.929	1.00	14.51
11415	CB	ASN	B	704	27.285	12.649	28.663	1.00	14.02

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11416	CG	ASN	B	704	26.281	13.081	27.650	1.00	23.00
11417	OD1	ASN	B	704	25.361	13.980	27.865	1.00	19.88
11418	ND2	ASN	B	704	26.405	12.402	26.488	1.00	27.03
11419	C	ASN	B	704	25.995	13.379	30.709	1.00	15.20
11420	O	ASN	B	704	25.400	14.451	31.073	1.00	14.57
11421	N	VAL	B	705	25.568	12.104	30.955	1.00	12.66
11422	CA	VAL	B	705	24.584	11.790	31.897	1.00	11.98
11423	CB	VAL	B	705	23.669	10.704	31.388	1.00	12.63
11424	CG1	VAL	B	705	22.732	10.272	32.493	1.00	9.47
11425	CG2	VAL	B	705	22.906	11.156	30.263	1.00	6.57
11426	C	VAL	B	705	25.338	11.373	33.186	1.00	13.72
11427	O	VAL	B	705	25.907	10.233	33.356	1.00	10.47
11428	N	HIS	B	706	25.329	12.308	34.141	1.00	14.20
11429	CA	HIS	B	706	26.251	12.153	35.300	1.00	14.11
11430	CB	HIS	B	706	26.289	13.423	36.066	1.00	13.13
11431	CG	HIS	B	706	26.730	14.562	35.239	1.00	14.38
11432	ND1	HIS	B	706	27.573	14.396	34.176	1.00	16.51
11433	CE1	HIS	B	706	27.842	15.582	33.639	1.00	15.92
11434	NE2	HIS	B	706	27.133	16.498	34.282	1.00	20.93
11435	CD2	HIS	B	706	26.453	15.886	35.304	1.00	16.10
11436	C	HIS	B	706	25.826	11.025	36.167	1.00	13.74
11437	O	HIS	B	706	24.673	10.788	36.304	1.00	14.12
11438	N	PHE	B	707	26.749	10.310	36.736	1.00	13.27
11439	CA	PHE	B	707	26.368	9.109	37.520	1.00	13.62
11440	CB	PHE	B	707	27.631	8.384	38.007	1.00	10.84
11441	CG	PHE	B	707	27.425	7.252	38.966	1.00	11.60
11442	CD1	PHE	B	707	27.629	5.985	38.576	1.00	11.12
11443	CE1	PHE	B	707	27.593	4.977	39.453	1.00	6.94
11444	CZ	PHE	B	707	27.332	5.190	40.719	1.00	2.95
11445	CE2	PHE	B	707	27.281	6.409	41.166	1.00	6.87
11446	CD2	PHE	B	707	27.391	7.459	40.306	1.00	9.61
11447	C	PHE	B	707	25.489	9.546	38.690	1.00	13.51
11448	O	PHE	B	707	24.751	8.750	39.176	1.00	11.81
11449	N	GLN	B	708	25.643	10.797	39.178	1.00	13.76
11450	CA	GLN	B	708	24.560	11.463	39.899	1.00	13.63
11451	CB	GLN	B	708	24.599	12.952	39.580	1.00	12.77
11452	CG	GLN	B	708	23.795	13.814	40.531	1.00	12.94
11453	CD	GLN	B	708	23.527	15.204	39.934	1.00	19.01
11454	OE1	GLN	B	708	23.423	16.226	40.667	1.00	15.70
11455	NE2	GLN	B	708	23.395	15.251	38.599	1.00	12.66
11456	C	GLN	B	708	23.184	10.813	39.498	1.00	14.94
11457	O	GLN	B	708	22.609	10.188	40.299	1.00	16.55
11458	N	ASN	B	709	22.696	10.908	38.253	1.00	14.19
11459	CA	ASN	B	709	21.327	10.435	37.991	1.00	14.70
11460	CB	ASN	B	709	20.921	10.459	36.459	1.00	14.12
11461	CG	ASN	B	709	21.131	11.836	35.792	1.00	16.23
11462	OD1	ASN	B	709	22.261	12.173	35.504	1.00	12.09
11463	ND2	ASN	B	709	20.057	12.632	35.589	1.00	12.90
11464	C	ASN	B	709	21.065	9.041	38.569	1.00	14.02
11465	O	ASN	B	709	19.992	8.767	39.020	1.00	11.11
11466	N	SER	B	710	22.050	8.151	38.484	1.00	13.62

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11467	CA	SER	B	710	21.839	6.773	39.001	1.00	13.57
11468	CB	SER	B	710	22.753	5.772	38.289	1.00	14.11
11469	OG	SER	B	710	22.263	5.248	37.077	1.00	15.11
11470	C	SER	B	710	22.033	6.694	40.506	1.00	11.84
11471	O	SER	B	710	21.289	5.973	41.259	1.00	14.44
11472	N	ALA	B	711	23.033	7.395	41.004	1.00	11.81
11473	CA	ALA	B	711	23.224	7.512	42.471	1.00	11.92
11474	CB	ALA	B	711	24.310	8.388	42.841	1.00	11.54
11475	C	ALA	B	711	21.963	7.952	43.220	1.00	12.54
11476	O	ALA	B	711	21.727	7.440	44.318	1.00	12.88
11477	N	GLN	B	712	21.165	8.848	42.630	1.00	11.19
11478	CA	GLN	B	712	19.978	9.304	43.273	1.00	9.32
11479	CB	GLN	B	712	19.514	10.709	42.712	1.00	9.05
11480	CG	GLN	B	712	20.491	11.914	42.871	1.00	8.92
11481	CD	GLN	B	712	20.564	12.417	44.290	1.00	13.14
11482	OE1	GLN	B	712	20.083	11.763	45.135	1.00	14.07
11483	NE2	GLN	B	712	21.210	13.595	44.549	1.00	17.00
11484	C	GLN	B	712	18.849	8.316	43.117	1.00	9.31
11485	O	GLN	B	712	17.961	8.232	43.981	1.00	7.05
11486	N	ILE	B	713	18.811	7.622	41.990	1.00	11.00
11487	CA	ILE	B	713	17.801	6.590	41.842	1.00	9.47
11488	CB	ILE	B	713	17.857	5.883	40.508	1.00	10.29
11489	CG1	ILE	B	713	17.508	6.837	39.352	1.00	7.04
11490	CD1	ILE	B	713	17.594	6.192	37.950	1.00	2.00
11491	CG2	ILE	B	713	16.843	4.787	40.527	1.00	5.15
11492	C	ILE	B	713	18.014	5.592	42.966	1.00	10.49
11493	O	ILE	B	713	17.066	5.292	43.714	1.00	12.00
11494	N	ALA	B	714	19.275	5.159	43.136	1.00	11.03
11495	CA	ALA	B	714	19.633	3.977	43.931	1.00	10.12
11496	CB	ALA	B	714	21.131	3.717	43.903	1.00	8.81
11497	C	ALA	B	714	19.245	4.304	45.286	1.00	10.59
11498	O	ALA	B	714	18.803	3.399	46.004	1.00	11.56
11499	N	LYS	B	715	19.395	5.593	45.638	1.00	9.46
11500	CA	LYS	B	715	19.227	6.078	47.018	1.00	9.31
11501	CB	LYS	B	715	19.790	7.483	47.083	1.00	8.03
11502	CG	LYS	B	715	19.588	8.301	48.311	1.00	7.05
11503	CD	LYS	B	715	20.839	9.306	48.349	1.00	13.54
11504	CE	LYS	B	715	20.623	10.860	48.342	1.00	13.43
11505	NZ	LYS	B	715	19.282	11.304	48.586	1.00	11.08
11506	C	LYS	B	715	17.791	6.155	47.403	1.00	10.41
11507	O	LYS	B	715	17.412	6.049	48.592	1.00	11.53
11508	N	ALA	B	716	17.001	6.455	46.388	1.00	12.11
11509	CA	ALA	B	716	15.590	6.651	46.533	1.00	12.66
11510	CB	ALA	B	716	15.010	7.359	45.298	1.00	11.82
11511	C	ALA	B	716	15.042	5.279	46.686	1.00	11.73
11512	O	ALA	B	716	14.251	5.042	47.584	1.00	14.51
11513	N	LEU	B	717	15.547	4.313	45.940	1.00	11.55
11514	CA	LEU	B	717	15.094	2.928	46.192	1.00	9.64
11515	CB	LEU	B	717	15.600	1.948	45.137	1.00	10.30
11516	CG	LEU	B	717	15.336	2.195	43.655	1.00	15.42
11517	CD1	LEU	B	717	15.720	0.939	42.890	1.00	21.19

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11518	CD2	LEU	B	717	13.870	2.405	43.451	1.00	15.57
11519	C	LEU	B	717	15.501	2.447	47.577	1.00	7.83
11520	O	LEU	B	717	14.813	1.581	48.142	1.00	5.95
11521	N	VAL	B	718	16.620	2.970	48.116	1.00	5.14
11522	CA	VAL	B	718	17.043	2.519	49.381	1.00	4.86
11523	CB	VAL	B	718	18.547	2.722	49.709	1.00	5.78
11524	CG1	VAL	B	718	18.853	2.511	51.222	1.00	2.27
11525	CG2	VAL	B	718	19.403	1.744	48.942	1.00	2.41
11526	C	VAL	B	718	16.143	3.105	50.369	1.00	6.68
11527	O	VAL	B	718	15.757	2.398	51.279	1.00	6.15
11528	N	ASN	B	719	15.729	4.348	50.185	1.00	9.61
11529	CA	ASN	B	719	14.800	4.951	51.104	1.00	10.97
11530	CB	ASN	B	719	14.703	6.484	51.004	1.00	11.86
11531	CG	ASN	B	719	16.051	7.176	51.186	1.00	14.93
11532	OD1	ASN	B	719	16.205	8.371	50.827	1.00	14.01
11533	ND2	ASN	B	719	17.043	6.434	51.693	1.00	17.69
11534	C	ASN	B	719	13.425	4.365	51.035	1.00	10.03
11535	O	ASN	B	719	12.702	4.360	52.035	1.00	9.56
11536	N	ALA	B	720	13.057	3.852	49.895	1.00	9.84
11537	CA	ALA	B	720	11.747	3.181	49.760	1.00	8.79
11538	CB	ALA	B	720	11.374	3.126	48.311	1.00	8.04
11539	C	ALA	B	720	11.822	1.787	50.311	1.00	8.29
11540	O	ALA	B	720	10.871	1.077	50.380	1.00	9.04
11541	N	GLN	B	721	13.005	1.375	50.703	1.00	9.12
11542	CA	GLN	B	721	13.237	0.007	51.129	1.00	8.89
11543	CB	GLN	B	721	12.511	-0.288	52.390	1.00	9.26
11544	CG	GLN	B	721	13.141	0.178	53.634	1.00	7.91
11545	CD	GLN	B	721	12.215	-0.206	54.764	1.00	10.30
11546	OE1	GLN	B	721	11.348	0.576	55.120	1.00	9.61
11547	NE2	GLN	B	721	12.363	-1.439	55.296	1.00	11.42
11548	C	GLN	B	721	12.895	-1.013	50.014	1.00	8.74
11549	O	GLN	B	721	12.398	-2.093	50.259	1.00	8.35
11550	N	VAL	B	722	13.320	-0.649	48.809	1.00	6.78
11551	CA	VAL	B	722	13.107	-1.403	47.606	1.00	6.68
11552	CB	VAL	B	722	12.477	-0.509	46.513	1.00	4.72
11553	CG1	VAL	B	722	12.517	-1.168	45.136	1.00	2.00
11554	CG2	VAL	B	722	10.967	-0.139	46.917	1.00	2.28
11555	C	VAL	B	722	14.397	-2.009	47.130	1.00	7.76
11556	O	VAL	B	722	15.338	-1.275	46.878	1.00	9.65
11557	N	ASP	B	723	14.393	-3.321	46.951	1.00	9.51
11558	CA	ASP	B	723	15.491	-4.068	46.444	1.00	12.57
11559	CB	ASP	B	723	15.228	-5.520	46.714	1.00	13.79
11560	CG	ASP	B	723	16.467	-6.400	46.491	1.00	16.84
11561	OD1	ASP	B	723	16.233	-7.615	46.235	1.00	25.78
11562	OD2	ASP	B	723	17.650	-6.011	46.582	1.00	14.05
11563	C	ASP	B	723	15.544	-3.894	44.958	1.00	13.78
11564	O	ASP	B	723	14.490	-3.734	44.310	1.00	15.14
11565	N	PHE	B	724	16.767	-3.894	44.420	1.00	13.52
11566	CA	PHE	B	724	16.990	-3.946	42.966	1.00	13.71
11567	CB	PHE	B	724	16.964	-2.568	42.365	1.00	12.51
11568	CG	PHE	B	724	17.916	-1.615	42.992	1.00	11.00

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11569	CD1	PHE	B	724	17.681	-1.114	44.251	1.00	13.45
11570	CE1	PHE	B	724	18.533	-0.219	44.862	1.00	14.16
11571	CZ	PHE	B	724	19.593	0.255	44.155	1.00	17.50
11572	CE2	PHE	B	724	19.798	-0.217	42.878	1.00	16.26
11573	CD2	PHE	B	724	18.959	-1.179	42.325	1.00	12.29
11574	C	PHE	B	724	18.362	-4.439	42.726	1.00	14.33
11575	O	PHE	B	724	19.100	-4.473	43.686	1.00	15.03
11576	N	GLN	B	725	18.724	-4.747	41.468	1.00	13.24
11577	CA	GLN	B	725	20.122	-4.910	41.100	1.00	12.28
11578	CB	GLN	B	725	20.355	-6.100	40.245	1.00	11.84
11579	CG	GLN	B	725	20.322	-7.450	41.119	1.00	15.35
11580	CD	GLN	B	725	18.893	-7.900	41.213	1.00	19.66
11581	OE1	GLN	B	725	18.335	-8.098	42.289	1.00	17.07
11582	NE2	GLN	B	725	18.250	-7.922	40.061	1.00	21.21
11583	C	GLN	B	725	20.836	-3.685	40.509	1.00	12.56
11584	O	GLN	B	725	20.239	-2.703	39.948	1.00	13.69
11585	N	ALA	B	726	22.135	-3.713	40.713	1.00	10.75
11586	CA	ALA	B	726	22.937	-2.685	40.221	1.00	11.09
11587	CB	ALA	B	726	23.166	-1.703	41.319	1.00	11.34
11588	C	ALA	B	726	24.271	-3.272	39.663	1.00	11.47
11589	O	ALA	B	726	24.611	-4.502	39.883	1.00	11.24
11590	N	MET	B	727	24.893	-2.416	38.868	1.00	10.29
11591	CA	MET	B	727	26.281	-2.519	38.409	1.00	10.93
11592	CB	MET	B	727	26.276	-3.370	37.197	1.00	10.23
11593	CG	MET	B	727	27.543	-3.384	36.483	1.00	11.46
11594	SD	MET	B	727	28.809	-4.115	37.485	1.00	15.13
11595	CE	MET	B	727	28.309	-5.824	37.745	1.00	11.22
11596	C	MET	B	727	26.860	-1.061	38.041	1.00	9.98
11597	O	MET	B	727	26.134	-0.242	37.482	1.00	10.16
11598	N	TRP	B	728	28.078	-0.737	38.488	1.00	9.93
11599	CA	TRP	B	728	28.728	0.481	38.079	1.00	11.09
11600	CB	TRP	B	728	29.231	1.404	39.275	1.00	10.17
11601	CG	TRP	B	728	30.447	0.825	40.002	1.00	8.20
11602	CD1	TRP	B	728	31.770	1.053	39.711	1.00	9.20
11603	NE1	TRP	B	728	32.582	0.319	40.548	1.00	10.29
11604	CE2	TRP	B	728	31.771	-0.385	41.417	1.00	11.63
11605	CD2	TRP	B	728	30.440	-0.061	41.125	1.00	7.45
11606	CE3	TRP	B	728	29.432	-0.636	41.921	1.00	8.09
11607	CZ3	TRP	B	728	29.767	-1.490	42.905	1.00	2.66
11608	CH2	TRP	B	728	31.072	-1.772	43.154	1.00	5.88
11609	CZ2	TRP	B	728	32.090	-1.217	42.438	1.00	5.65
11610	C	TRP	B	728	29.902	0.045	37.238	1.00	12.50
11611	O	TRP	B	728	30.404	-1.154	37.377	1.00	11.78
11612	N	TYR	B	729	30.390	1.036	36.435	1.00	12.05
11613	CA	TYR	B	729	31.524	0.747	35.578	1.00	12.90
11614	CB	TYR	B	729	31.093	0.602	34.098	1.00	10.99
11615	CG	TYR	B	729	30.457	-0.759	33.805	1.00	13.36
11616	CD1	TYR	B	729	29.076	-0.890	33.771	1.00	10.42
11617	CE1	TYR	B	729	28.490	-2.057	33.528	1.00	8.83
11618	CZ	TYR	B	729	29.211	-3.135	33.317	1.00	9.46
11619	OH	TYR	B	729	28.483	-4.298	33.203	1.00	15.32

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11620	CE2	TYR	B	729	30.585	-3.099	33.400	1.00	8.97
11621	CD2	TYR	B	729	31.203	-1.913	33.643	1.00	7.06
11622	C	TYR	B	729	32.670	1.709	35.900	1.00	13.57
11623	O	TYR	B	729	32.555	2.945	35.818	1.00	14.52
11624	N	SER	B	730	33.772	1.152	36.393	1.00	12.93
11625	CA	SER	B	730	34.675	2.034	37.044	1.00	12.67
11626	CB	SER	B	730	35.633	1.275	37.983	1.00	14.00
11627	OG	SER	B	730	35.000	0.605	39.087	1.00	13.79
11628	C	SER	B	730	35.372	2.785	35.886	1.00	13.23
11629	O	SER	B	730	35.790	2.148	34.940	1.00	10.63
11630	N	ASP	B	731	35.369	4.124	35.921	1.00	12.93
11631	CA	ASP	B	731	36.116	4.963	34.936	1.00	13.41
11632	CB	ASP	B	731	37.637	4.614	34.891	1.00	11.63
11633	CG	ASP	B	731	38.358	4.935	36.201	1.00	12.88
11634	OD1	ASP	B	731	37.824	5.837	36.973	1.00	10.45
11635	OD2	ASP	B	731	39.421	4.281	36.524	1.00	16.89
11636	C	ASP	B	731	35.546	4.966	33.486	1.00	13.88
11637	O	ASP	B	731	36.132	5.549	32.515	1.00	13.79
11638	N	GLN	B	732	34.395	4.346	33.330	1.00	13.02
11639	CA	GLN	B	732	33.762	4.370	32.054	1.00	13.16
11640	CB	GLN	B	732	32.973	3.116	31.837	1.00	10.78
11641	CG	GLN	B	732	33.790	1.828	31.956	1.00	10.11
11642	CD	GLN	B	732	35.272	1.892	31.360	1.00	11.12
11643	OE1	GLN	B	732	36.236	1.896	32.089	1.00	13.54
11644	NE2	GLN	B	732	35.397	1.922	30.085	1.00	9.25
11645	C	GLN	B	732	32.874	5.581	31.997	1.00	16.23
11646	O	GLN	B	732	32.544	6.214	33.004	1.00	17.88
11647	N	ASN	B	733	32.442	5.859	30.767	1.00	18.03
11648	CA	ASN	B	733	31.780	7.036	30.376	1.00	16.52
11649	CB	ASN	B	733	32.729	7.759	29.448	1.00	17.23
11650	CG	ASN	B	733	32.823	7.134	28.045	1.00	17.93
11651	OD1	ASN	B	733	33.495	7.681	27.257	1.00	20.55
11652	ND2	ASN	B	733	32.167	6.011	27.752	1.00	22.44
11653	C	ASN	B	733	30.392	6.666	29.736	1.00	17.88
11654	O	ASN	B	733	29.932	5.497	29.821	1.00	15.74
11655	N	HIS	B	734	29.713	7.648	29.117	1.00	17.94
11656	CA	HIS	B	734	28.369	7.358	28.651	1.00	18.17
11657	CB	HIS	B	734	27.732	8.538	28.013	1.00	17.49
11658	CG	HIS	B	734	26.255	8.454	27.996	1.00	14.06
11659	ND1	HIS	B	734	25.541	8.113	29.104	1.00	17.39
11660	CE1	HIS	B	734	24.243	8.183	28.827	1.00	17.02
11661	NE2	HIS	B	734	24.102	8.556	27.571	1.00	15.21
11662	CD2	HIS	B	734	25.353	8.767	27.043	1.00	19.28
11663	C	HIS	B	734	28.316	6.186	27.662	1.00	18.98
11664	O	HIS	B	734	27.342	5.487	27.604	1.00	20.88
11665	N	GLY	B	735	29.366	5.959	26.912	1.00	20.04
11666	CA	GLY	B	735	29.431	4.868	25.927	1.00	20.57
11667	C	GLY	B	735	29.762	3.505	26.504	1.00	21.08
11668	O	GLY	B	735	29.537	2.521	25.899	1.00	21.57
11669	N	LEU	B	736	30.292	3.435	27.691	1.00	20.40
11670	CA	LEU	B	736	30.612	2.142	28.260	1.00	20.75

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11671	CB	LEU	B	736	29.321	1.454	28.635	1.00	21.08
11672	CG	LEU	B	736	28.526	2.044	29.802	1.00	22.39
11673	CD1	LEU	B	736	27.740	0.872	30.374	1.00	24.89
11674	CD2	LEU	B	736	29.467	2.653	30.876	1.00	22.79
11675	C	LEU	B	736	31.401	1.331	27.283	1.00	20.93
11676	O	LEU	B	736	31.112	0.208	26.967	1.00	21.16
11677	N	SER	B	737	32.444	1.948	26.807	1.00	21.37
11678	CA	SER	B	737	33.223	1.447	25.682	1.00	21.15
11679	CB	SER	B	737	33.990	2.619	25.140	1.00	20.85
11680	OG	SER	B	737	34.113	2.300	23.791	1.00	24.66
11681	C	SER	B	737	34.230	0.367	26.025	1.00	19.52
11682	O	SER	B	737	34.365	0.027	27.118	1.00	19.94
11683	N	GLY	B	738	34.984	-0.130	25.106	1.00	18.63
11684	CA	GLY	B	738	36.008	-1.111	25.466	1.00	18.55
11685	C	GLY	B	738	35.436	-2.425	26.015	1.00	17.97
11686	O	GLY	B	738	34.307	-2.821	25.602	1.00	18.14
11687	N	LEU	B	739	36.157	-3.083	26.941	1.00	16.87
11688	CA	LEU	B	739	35.625	-4.340	27.519	1.00	16.10
11689	CB	LEU	B	739	36.647	-5.201	28.199	1.00	16.39
11690	CG	LEU	B	739	37.950	-5.604	27.481	1.00	16.61
11691	CD1	LEU	B	739	38.935	-6.024	28.495	1.00	13.01
11692	CD2	LEU	B	739	37.783	-6.758	26.501	1.00	18.57
11693	C	LEU	B	739	34.459	-4.130	28.471	1.00	14.83
11694	O	LEU	B	739	33.820	-5.071	28.830	1.00	15.35
11695	N	SER	B	740	34.149	-2.909	28.855	1.00	12.82
11696	CA	SER	B	740	32.896	-2.695	29.596	1.00	11.93
11697	CB	SER	B	740	32.838	-1.229	30.024	1.00	10.26
11698	OG	SER	B	740	34.081	-0.949	30.719	1.00	14.33
11699	C	SER	B	740	31.631	-3.147	28.763	1.00	11.17
11700	O	SER	B	740	30.694	-3.719	29.256	1.00	10.24
11701	N	THR	B	741	31.615	-2.908	27.495	1.00	10.14
11702	CA	THR	B	741	30.538	-3.371	26.665	1.00	10.24
11703	CB	THR	B	741	30.975	-3.029	25.245	1.00	11.50
11704	OG1	THR	B	741	31.231	-1.598	25.107	1.00	13.95
11705	CG2	THR	B	741	29.933	-3.390	24.178	1.00	12.16
11706	C	THR	B	741	30.376	-4.891	26.824	1.00	10.62
11707	O	THR	B	741	29.288	-5.437	27.041	1.00	10.18
11708	N	ASN	B	742	31.489	-5.592	26.678	1.00	8.78
11709	CA	ASN	B	742	31.454	-6.997	26.750	1.00	9.58
11710	CB	ASN	B	742	32.919	-7.601	26.785	1.00	10.74
11711	CG	ASN	B	742	33.575	-7.601	25.410	1.00	9.13
11712	OD1	ASN	B	742	33.681	-6.541	24.746	1.00	7.47
11713	ND2	ASN	B	742	33.995	-8.790	24.972	1.00	2.02
11714	C	ASN	B	742	30.757	-7.342	28.002	1.00	10.21
11715	O	ASN	B	742	29.837	-8.131	28.052	1.00	11.79
11716	N	HIS	B	743	31.226	-6.748	29.050	1.00	9.63
11717	CA	HIS	B	743	30.723	-7.053	30.365	1.00	10.43
11718	CB	HIS	B	743	31.638	-6.360	31.323	1.00	10.87
11719	CG	HIS	B	743	31.453	-6.771	32.722	1.00	12.25
11720	ND1	HIS	B	743	32.512	-7.089	33.531	1.00	14.51
11721	CE1	HIS	B	743	32.053	-7.420	34.723	1.00	15.10

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11722	NE2	HIS	B	743	30.740	-7.263	34.719	1.00	12.77
11723	CD2	HIS	B	743	30.345	-6.846	33.482	1.00	11.08
11724	C	HIS	B	743	29.264	-6.613	30.524	1.00	9.83
11725	O	HIS	B	743	28.446	-7.320	31.005	1.00	8.46
11726	N	LEU	B	744	28.926	-5.423	30.080	1.00	9.96
11727	CA	LEU	B	744	27.601	-4.988	30.245	1.00	8.54
11728	CB	LEU	B	744	27.429	-3.668	29.606	1.00	8.03
11729	CG	LEU	B	744	26.034	-3.366	29.128	1.00	7.55
11730	CD1	LEU	B	744	25.140	-3.127	30.238	1.00	2.88
11731	CD2	LEU	B	744	26.122	-2.118	28.302	1.00	7.55
11732	C	LEU	B	744	26.637	-6.054	29.627	1.00	10.41
11733	O	LEU	B	744	25.592	-6.290	30.204	1.00	11.61
11734	N	TYR	B	745	26.925	-6.656	28.468	1.00	9.86
11735	CA	TYR	B	745	25.818	-7.276	27.775	1.00	10.34
11736	CB	TYR	B	745	26.033	-7.300	26.244	1.00	10.38
11737	CG	TYR	B	745	25.737	-5.971	25.570	1.00	12.97
11738	CD1	TYR	B	745	26.765	-5.082	25.223	1.00	14.81
11739	CE1	TYR	B	745	26.471	-3.881	24.626	1.00	13.08
11740	CZ	TYR	B	745	25.141	-3.576	24.336	1.00	9.88
11741	OH	TYR	B	745	24.851	-2.380	23.773	1.00	13.96
11742	CE2	TYR	B	745	24.139	-4.421	24.659	1.00	7.34
11743	CD2	TYR	B	745	24.410	-5.566	25.293	1.00	13.25
11744	C	TYR	B	745	25.690	-8.680	28.364	1.00	11.20
11745	O	TYR	B	745	24.680	-9.374	28.249	1.00	11.87
11746	N	THR	B	746	26.773	-9.122	28.967	1.00	11.58
11747	CA	THR	B	746	26.856	-10.440	29.468	1.00	10.50
11748	CB	THR	B	746	28.315	-10.827	29.649	1.00	10.07
11749	OG1	THR	B	746	29.090	-10.204	28.611	1.00	8.64
11750	CG2	THR	B	746	28.562	-12.404	29.384	1.00	10.11
11751	C	THR	B	746	26.035	-10.355	30.718	1.00	10.57
11752	O	THR	B	746	25.317	-11.277	30.991	1.00	12.47
11753	N	HIS	B	747	26.052	-9.234	31.419	1.00	10.49
11754	CA	HIS	B	747	25.280	-8.999	32.710	1.00	10.75
11755	CB	HIS	B	747	25.920	-7.848	33.525	1.00	9.07
11756	CG	HIS	B	747	25.589	-7.850	34.998	1.00	11.68
11757	ND1	HIS	B	747	24.576	-7.075	35.537	1.00	13.18
11758	CE1	HIS	B	747	24.480	-7.284	36.837	1.00	6.67
11759	NE2	HIS	B	747	25.436	-8.132	37.180	1.00	13.10
11760	CD2	HIS	B	747	26.110	-8.540	36.046	1.00	12.70
11761	C	HIS	B	747	23.740	-8.751	32.453	1.00	11.23
11762	O	HIS	B	747	22.887	-9.348	33.109	1.00	14.12
11763	N	MET	B	748	23.406	-7.947	31.463	1.00	11.12
11764	CA	MET	B	748	22.026	-7.750	30.989	1.00	10.93
11765	CB	MET	B	748	21.963	-6.771	29.875	1.00	8.85
11766	CG	MET	B	748	22.702	-5.469	30.208	1.00	12.68
11767	SD	MET	B	748	22.086	-4.107	29.144	1.00	19.32
11768	CE	MET	B	748	20.722	-4.099	29.701	1.00	6.93
11769	C	MET	B	748	21.506	-9.066	30.493	1.00	10.49
11770	O	MET	B	748	20.378	-9.407	30.789	1.00	10.55
11771	N	THR	B	749	22.358	-9.826	29.825	1.00	9.52
11772	CA	THR	B	749	21.885	-11.068	29.279	1.00	8.80

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11773	CB	THR	B	749	22.917	-11.825	28.375	1.00	7.82
11774	OG1	THR	B	749	23.280	-11.006	27.268	1.00	6.79
11775	CG2	THR	B	749	22.266	-13.007	27.753	1.00	2.00
11776	C	THR	B	749	21.431	-11.977	30.422	1.00	9.33
11777	O	THR	B	749	20.359	-12.545	30.385	1.00	9.25
11778	N	HIS	B	750	22.243	-12.047	31.454	1.00	11.23
11779	CA	HIS	B	750	21.987	-12.951	32.580	1.00	12.28
11780	CB	HIS	B	750	23.198	-12.968	33.552	1.00	13.08
11781	CG	HIS	B	750	24.323	-13.855	33.106	1.00	16.16
11782	ND1	HIS	B	750	24.125	-14.998	32.359	1.00	21.80
11783	CE1	HIS	B	750	25.295	-15.571	32.121	1.00	22.49
11784	NE2	HIS	B	750	26.241	-14.843	32.682	1.00	19.54
11785	CD2	HIS	B	750	25.660	-13.759	33.290	1.00	19.47
11786	C	HIS	B	750	20.720	-12.459	33.247	1.00	10.94
11787	O	HIS	B	750	19.853	-13.257	33.623	1.00	10.42
11788	N	PHE	B	751	20.611	-11.130	33.309	1.00	10.76
11789	CA	PHE	B	751	19.507	-10.510	34.004	1.00	10.91
11790	CB	PHE	B	751	19.664	-9.016	34.034	1.00	10.90
11791	CG	PHE	B	751	18.564	-8.348	34.760	1.00	9.29
11792	CD1	PHE	B	751	17.622	-7.641	34.083	1.00	9.52
11793	CE1	PHE	B	751	16.564	-7.096	34.731	1.00	9.59
11794	CZ	PHE	B	751	16.457	-7.240	36.089	1.00	10.48
11795	CE2	PHE	B	751	17.433	-7.964	36.767	1.00	10.87
11796	CD2	PHE	B	751	18.457	-8.494	36.118	1.00	9.48
11797	C	PHE	B	751	18.219	-10.924	33.321	1.00	11.97
11798	O	PHE	B	751	17.234	-11.352	33.952	1.00	13.03
11799	N	LEU	B	752	18.308	-10.924	32.006	1.00	12.61
11800	CA	LEU	B	752	17.198	-11.235	31.163	1.00	12.56
11801	CB	LEU	B	752	17.451	-10.762	29.756	1.00	12.41
11802	CG	LEU	B	752	17.084	-9.284	29.766	1.00	11.77
11803	CD1	LEU	B	752	17.493	-8.740	28.444	1.00	12.43
11804	CD2	LEU	B	752	15.625	-9.052	30.002	1.00	5.85
11805	C	LEU	B	752	16.870	-12.676	31.191	1.00	13.20
11806	O	LEU	B	752	15.745	-12.966	31.284	1.00	13.43
11807	N	LYS	B	753	17.857	-13.548	31.179	1.00	14.13
11808	CA	LYS	B	753	17.627	-14.981	31.187	1.00	14.93
11809	CB	LYS	B	753	18.915	-15.830	30.930	1.00	14.63
11810	CG	LYS	B	753	19.783	-15.436	29.696	1.00	13.42
11811	CD	LYS	B	753	19.979	-16.485	28.593	1.00	10.92
11812	CE	LYS	B	753	20.654	-17.797	29.069	1.00	16.20
11813	NZ	LYS	B	753	20.208	-18.950	28.202	1.00	13.03
11814	C	LYS	B	753	17.018	-15.433	32.496	1.00	16.89
11815	O	LYS	B	753	16.143	-16.291	32.413	1.00	18.32
11816	N	GLN	B	754	17.487	-14.953	33.687	1.00	18.36
11817	CA	GLN	B	754	16.832	-15.359	34.970	1.00	19.47
11818	CB	GLN	B	754	17.469	-14.775	36.260	1.00	19.09
11819	CG	GLN	B	754	17.593	-15.776	37.548	1.00	23.66
11820	CD	GLN	B	754	16.463	-16.968	37.799	1.00	30.03
11821	OE1	GLN	B	754	16.308	-17.989	37.023	1.00	29.32
11822	NE2	GLN	B	754	15.757	-16.828	38.929	1.00	30.23
11823	C	GLN	B	754	15.374	-14.907	34.836	1.00	19.50

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11824	O	GLN	B	754	14.427	-15.680	34.912	1.00	17.80
11825	N	CYS	B	755	15.221	-13.618	34.556	1.00	20.52
11826	CA	CYS	B	755	13.896	-13.066	34.514	1.00	21.04
11827	CB	CYS	B	755	14.026	-11.726	33.921	1.00	20.61
11828	SG	CYS	B	755	12.497	-10.885	33.745	1.00	25.17
11829	C	CYS	B	755	12.965	-14.005	33.700	1.00	20.96
11830	O	CYS	B	755	11.953	-14.515	34.215	1.00	21.71
11831	N	PHE	B	756	13.383	-14.311	32.481	1.00	19.75
11832	CA	PHE	B	756	12.615	-15.096	31.574	1.00	19.38
11833	CB	PHE	B	756	13.012	-14.785	30.129	1.00	19.48
11834	CG	PHE	B	756	12.600	-13.402	29.624	1.00	20.91
11835	CD1	PHE	B	756	13.322	-12.799	28.581	1.00	20.26
11836	CE1	PHE	B	756	12.986	-11.524	28.125	1.00	15.02
11837	CZ	PHE	B	756	11.901	-10.846	28.680	1.00	16.35
11838	CE2	PHE	B	756	11.154	-11.404	29.691	1.00	17.36
11839	CD2	PHE	B	756	11.502	-12.677	30.172	1.00	22.73
11840	C	PHE	B	756	12.660	-16.652	31.834	1.00	19.91
11841	O	PHE	B	756	11.808	-17.346	31.329	1.00	19.33
11842	N	SER	B	757	13.648	-17.158	32.577	1.00	19.27
11843	CA	SER	B	757	13.547	-18.418	33.316	1.00	20.13
11844	CB	SER	B	757	12.491	-18.251	34.432	1.00	20.46
11845	OG	SER	B	757	11.169	-18.233	33.879	1.00	20.90
11846	C	SER	B	757	13.262	-19.718	32.490	1.00	20.22
11847	O	SER	B	757	12.603	-20.681	32.972	1.00	19.10
11848	C1	NAG	B	4901	36.013	-11.577	15.006	1.00	31.01
11849	C2	NAG	B	4901	35.889	-13.031	14.557	1.00	33.37
11850	N2	NAG	B	4901	35.922	-13.916	15.709	1.00	31.60
11851	C7	NAG	B	4901	36.988	-14.017	16.492	1.00	29.25
11852	O7	NAG	B	4901	37.911	-14.768	16.241	1.00	31.00
11853	C8	NAG	B	4901	37.016	-13.084	17.663	1.00	27.02
11854	C3	NAG	B	4901	36.982	-13.341	13.544	1.00	31.29
11855	O3	NAG	B	4901	36.879	-14.690	13.067	1.00	29.05
11856	C4	NAG	B	4901	36.835	-12.361	12.389	1.00	33.53
11857	O4	NAG	B	4901	37.873	-12.595	11.433	1.00	36.10
11858	C5	NAG	B	4901	36.894	-10.916	12.893	1.00	34.94
11859	C6	NAG	B	4901	36.708	-9.920	11.747	1.00	36.29
11860	O6	NAG	B	4901	35.476	-9.195	11.877	1.00	39.76
11861	O5	NAG	B	4901	35.895	-10.694	13.886	1.00	36.58
11862	C1	NAG	B	9201	53.388	-2.910	3.665	1.00	43.74
11863	C2	NAG	B	9201	52.656	-4.128	4.194	1.00	49.11
11864	N2	NAG	B	9201	53.192	-4.532	5.471	1.00	51.76
11865	C7	NAG	B	9201	54.493	-4.529	5.710	1.00	54.91
11866	O7	NAG	B	9201	55.290	-4.132	4.870	1.00	54.79
11867	C8	NAG	B	9201	54.892	-4.968	7.091	1.00	53.72
11868	C3	NAG	B	9201	52.902	-5.242	3.199	1.00	52.40
11869	O3	NAG	B	9201	52.311	-6.443	3.709	1.00	54.70
11870	C4	NAG	B	9201	52.356	-4.822	1.841	1.00	52.42
11871	O4	NAG	B	9201	52.712	-5.816	0.887	1.00	57.30
11872	C5	NAG	B	9201	52.960	-3.481	1.406	1.00	49.74
11873	C6	NAG	B	9201	52.362	-3.013	0.076	1.00	47.92
11874	O6	NAG	B	9201	53.044	-1.850	-0.404	1.00	44.94

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11875	O5	NAG	B	9201	52.809	-2.494	2.430	1.00	48.33
11876	C1	NAG	B	9202	53.203	-6.757	-0.053	1.00	73.82
11877	C2	NAG	B	9202	54.083	-6.767	-1.294	1.00	79.07
11878	N2	NAG	B	9202	53.820	-5.714	-2.254	1.00	80.21
11879	C7	NAG	B	9202	52.634	-5.589	-2.853	1.00	81.03
11880	O7	NAG	B	9202	52.409	-4.714	-3.676	1.00	82.65
11881	C8	NAG	B	9202	51.625	-6.650	-2.532	1.00	78.21
11882	C3	NAG	B	9202	53.850	-8.092	-1.986	1.00	80.67
11883	O3	NAG	B	9202	54.575	-8.142	-3.215	1.00	83.23
11884	C4	NAG	B	9202	54.302	-9.198	-1.050	1.00	81.48
11885	O4	NAG	B	9202	54.054	-10.462	-1.667	1.00	82.65
11886	C5	NAG	B	9202	53.543	-9.111	0.267	1.00	80.78
11887	C6	NAG	B	9202	54.045	-10.175	1.241	1.00	83.02
11888	O6	NAG	B	9202	54.563	-9.579	2.431	1.00	83.82
11889	O5	NAG	B	9202	53.663	-7.794	0.823	1.00	78.39
11890	C1	NAG	B	2271	34.630	36.507	30.534	1.00	42.66
11891	C2	NAG	B	2271	34.829	37.991	30.294	1.00	49.56
11892	N2	NAG	B	2271	35.737	38.215	29.194	1.00	49.24
11893	C7	NAG	B	2271	35.312	38.260	27.941	1.00	47.73
11894	O7	NAG	B	2271	35.818	37.560	27.075	1.00	48.66
11895	C8	NAG	B	2271	34.136	39.162	27.697	1.00	48.07
11896	C3	NAG	B	2271	35.457	38.549	31.553	1.00	46.96
11897	O3	NAG	B	2271	35.755	39.934	31.334	1.00	46.16
11898	C4	NAG	B	2271	34.516	38.306	32.724	1.00	48.35
11899	O4	NAG	B	2271	34.454	38.764	33.927	1.00	49.14
11900	C5	NAG	B	2271	34.165	36.818	32.836	1.00	47.26
11901	C6	NAG	B	2271	33.159	36.571	33.966	1.00	46.78
11902	O6	NAG	B	2271	32.411	35.376	33.725	1.00	47.45
11903	O5	NAG	B	2271	33.689	36.308	31.587	1.00	44.38
11904	C1	NAG	B	2272	34.967	38.684	35.254	1.00	55.84
11905	C2	NAG	B	2272	36.241	38.034	35.770	1.00	57.47
11906	N2	NAG	B	2272	36.727	36.911	34.995	1.00	59.65
11907	C7	NAG	B	2272	38.029	36.728	34.762	1.00	60.39
11908	O7	NAG	B	2272	38.447	35.786	34.109	1.00	60.77
11909	C8	NAG	B	2272	38.939	37.810	35.262	1.00	59.09
11910	C3	NAG	B	2272	35.943	37.536	37.168	1.00	57.69
11911	O3	NAG	B	2272	37.069	36.828	37.691	1.00	55.37
11912	C4	NAG	B	2272	35.615	38.737	38.036	1.00	60.16
11913	O4	NAG	B	2272	35.291	38.287	39.352	1.00	60.38
11914	C5	NAG	B	2272	34.434	39.498	37.447	1.00	59.38
11915	C6	NAG	B	2272	34.145	40.750	38.274	1.00	59.13
11916	O6	NAG	B	2272	34.265	41.931	37.480	1.00	57.13
11917	O5	NAG	B	2272	34.689	39.826	36.074	1.00	58.36
11918	C1	NAG	B	3141	7.787	31.390	22.871	1.00	47.99
11919	C2	NAG	B	3141	7.170	32.566	23.604	1.00	54.32
11920	N2	NAG	B	3141	7.508	32.530	25.007	1.00	60.49
11921	C7	NAG	B	3141	7.303	31.449	25.743	1.00	61.52
11922	O7	NAG	B	3141	6.867	30.419	25.247	1.00	61.89
11923	C8	NAG	B	3141	7.715	31.568	27.184	1.00	62.57
11924	C3	NAG	B	3141	5.670	32.416	23.470	1.00	53.77
11925	O3	NAG	B	3141	5.042	33.454	24.233	1.00	50.97

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11926	C4	NAG	B	3141	5.301	32.437	21.993	1.00	55.87
11927	O4	NAG	B	3141	4.191	32.574	21.354	1.00	58.28
11928	C5	NAG	B	3141	6.084	31.365	21.225	1.00	53.02
11929	C6	NAG	B	3141	5.776	31.426	19.725	1.00	53.63
11930	O6	NAG	B	3141	5.482	30.122	19.216	1.00	58.18
11931	O5	NAG	B	3141	7.487	31.474	21.480	1.00	53.10
11932	C1	NAG	B	6791	2.709	14.241	38.012	1.00	48.20
11933	C2	NAG	B	6791	1.392	14.834	37.550	1.00	53.67
11934	N2	NAG	B	6791	0.834	15.695	38.565	1.00	58.17
11935	C7	NAG	B	6791	1.195	16.964	38.673	1.00	61.53
11936	O7	NAG	B	6791	1.530	17.614	37.691	1.00	63.36
11937	C8	NAG	B	6791	1.084	17.545	40.053	1.00	62.19
11938	C3	NAG	B	6791	0.448	13.669	37.339	1.00	52.78
11939	O3	NAG	B	6791	-0.843	14.190	36.997	1.00	48.33
11940	C4	NAG	B	6791	1.032	12.744	36.282	1.00	54.69
11941	O4	NAG	B	6791	0.553	11.773	35.585	1.00	55.82
11942	C5	NAG	B	6791	2.450	12.307	36.669	1.00	54.99
11943	C6	NAG	B	6791	3.077	11.435	35.576	1.00	57.28
11944	O6	NAG	B	6791	4.430	11.107	35.905	1.00	61.21
11945	O5	NAG	B	6791	3.270	13.438	36.976	1.00	55.97
11946	O	HOH	W	1	53.203	-6.757	-0.053	1.00	15.00
11947	O	HOH	W	2	10.985	1.308	22.342	1.00	27.54
11948	O	HOH	W	3	49.214	41.420	9.638	1.00	31.42
11949	O	HOH	W	4	20.212	11.336	25.847	1.00	27.11
11950	O	HOH	W	5	39.986	-2.180	58.265	1.00	33.78
11951	O	HOH	W	6	21.970	2.616	46.876	1.00	37.67
11952	O	HOH	W	7	31.198	17.440	24.970	1.00	26.94
11953	O	HOH	W	8	29.879	13.080	41.180	1.00	32.99
11954	O	HOH	W	9	10.107	6.471	3.066	1.00	31.76
11955	O	HOH	W	10	24.167	22.672	43.370	1.00	27.88
11956	O	HOH	W	11	20.212	20.492	5.695	1.00	30.78
11957	O	HOH	W	12	6.152	7.848	22.780	1.00	37.88
11958	O	HOH	W	13	28.122	15.260	0.876	1.00	29.84
11959	O	HOH	W	14	9.228	7.412	13.581	1.00	34.37
11960	O	HOH	W	15	29.879	37.932	18.838	1.00	37.87
11961	O	HOH	W	16	25.925	24.852	-1.314	1.00	24.86
11962	O	HOH	W	17	12.743	-1.308	4.819	1.00	37.36
11963	O	HOH	W	18	50.093	37.496	17.523	1.00	25.51
11964	O	HOH	W	19	9.667	6.976	21.028	1.00	29.92
11965	O	HOH	W	20	16.258	30.956	10.514	1.00	30.37
11966	O	HOH	W	21	33.395	22.672	28.914	1.00	41.08
11967	O	HOH	W	22	17.577	-5.232	-3.943	1.00	36.73
11968	O	HOH	W	23	28.122	11.772	38.551	1.00	37.96
11969	O	HOH	W	24	43.501	17.876	-1.314	1.00	46.68
11970	O	HOH	W	25	12.743	15.260	35.923	1.00	33.55
11971	O	HOH	W	26	18.894	35.316	1.314	1.00	31.42
11972	O	HOH	W	27	43.501	5.232	91.998	1.00	39.59
11973	O	HOH	W	28	18.455	1.744	24.094	1.00	29.63
11974	O	HOH	W	29	25.485	-18.748	84.989	1.00	30.59
11975	O	HOH	W	30	33.395	3.924	28.914	1.00	44.26
11976	O	HOH	W	31	34.274	17.004	14.457	1.00	35.67

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
11977	O	HOH	W	32	35.152	6.540	49.066	1.00	36.74
11978	O	HOH	W	33	59.759	-5.668	63.523	1.00	40.90
11979	O	HOH	W	34	12.743	6.976	48.190	1.00	27.03
11980	O	HOH	W	35	43.501	-11.336	95.502	1.00	45.31
11981	O	HOH	W	36	6.591	10.900	7.885	1.00	36.65
11982	O	HOH	W	37	8.788	17.004	12.267	1.00	51.90
11983	O	HOH	W	38	15.380	15.696	14.895	1.00	31.02
11984	O	HOH	W	39	32.955	49.704	1.314	1.00	35.04
11985	O	HOH	W	40	44.820	-6.976	96.378	1.00	41.11
11986	O	HOH	W	41	24.606	29.212	9.638	1.00	34.07
11987	O	HOH	W	42	14.061	-1.744	60.894	1.00	36.52
11988	O	HOH	W	43	34.713	-13.516	61.332	1.00	47.97
11989	O	HOH	W	44	38.668	20.928	24.532	1.00	39.06
11990	O	HOH	W	45	30.758	27.904	5.695	1.00	35.25
11991	O	HOH	W	46	18.015	35.752	29.790	1.00	34.84
11992	O	HOH	W	47	39.474	37.496	19.714	1.00	30.42
11993	O	HOH	W	48	16.698	17.004	-10.953	1.00	44.00
11994	O	HOH	W	49	32.955	34.880	25.409	1.00	44.48
11995	O	HOH	W	50	30.319	-24.416	47.752	1.00	45.16
11996	O	HOH	W	51	11.425	23.108	11.391	1.00	34.95
11997	O	HOH	W	52	7.470	13.516	14.019	1.00	33.26
11998	O	HOH	W	53	29.001	11.336	25.409	1.00	28.97
11999	O	HOH	W	54	2.197	18.312	11.829	1.00	30.39
12000	O	HOH	W	55	39.547	35.316	22.342	1.00	41.07
12001	O	HOH	W	56	27.682	5.232	31.542	1.00	39.84
12002	O	HOH	W	57	7.910	5.232	-7.009	1.00	49.02
12003	O	HOH	W	58	45.699	40.548	16.209	1.00	37.76
12004	O	HOH	W	59	13.183	23.544	-12.267	1.00	33.91
12005	O	HOH	W	60	30.831	8.215	43.370	1.00	33.13
12006	O	HOH	W	61	29.879	23.108	28.914	1.00	54.29
12007	O	HOH	W	62	26.364	26.160	1.752	1.00	41.46
12008	O	HOH	W	63	19.333	3.488	21.466	1.00	33.76
12009	O	HOH	W	64	17.137	19.184	7.885	1.00	35.56
12010	O	HOH	W	65	17.577	0.872	-3.504	1.00	38.29
12011	O	HOH	W	66	32.077	-19.184	76.665	1.00	36.19
12012	O	HOH	W	67	14.061	1.744	20.223	1.00	42.69
12013	O	HOH	W	68	0.439	12.208	16.647	1.00	37.99
12014	O	HOH	W	69	12.743	37.496	10.076	1.00	38.29
12015	O	HOH	W	70	50.093	-14.824	86.303	1.00	40.60
12016	O	HOH	W	71	5.712	22.236	-4.819	1.00	44.03
12017	O	HOH	W	72	23.288	4.360	10.953	1.00	39.47
12018	O	HOH	W	73	22.409	30.956	27.162	1.00	34.37
12019	O	HOH	W	74	43.062	-20.056	66.589	1.00	42.07
12020	O	HOH	W	75	2.197	18.748	19.276	1.00	35.05
12021	O	HOH	W	76	42.183	37.060	23.218	1.00	35.30
12022	O	HOH	W	77	49.653	27.904	-2.190	1.00	25.11
12023	O	HOH	W	78	21.970	32.700	34.609	1.00	39.77
12024	O	HOH	W	79	56.683	13.080	62.647	1.00	41.49
12025	O	HOH	W	80	15.380	24.416	11.829	1.00	37.37
12026	O	HOH	W	81	30.758	25.288	40.742	1.00	38.71
12027	O	HOH	W	82	29.879	-14.824	93.750	1.00	38.19

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
12028	O	HOH	W	83	25.046	-3.924	60.017	1.00	50.13
12029	O	HOH	W	84	23.288	-14.824	70.970	1.00	48.80
12030	O	HOH	W	85	12.743	16.132	8.761	1.00	37.38
12031	O	HOH	W	86	3.076	27.032	11.391	1.00	41.11
12032	O	HOH	W	87	50.093	15.260	21.466	1.00	43.59
12033	O	HOH	W	88	22.409	-2.180	21.466	1.00	32.97
12034	O	HOH	W	89	45.259	11.772	-10.953	1.00	41.54
12035	O	HOH	W	90	36.031	-16.568	60.017	1.00	46.26
12036	O	HOH	W	91	28.561	14.824	84.113	1.00	46.62
12037	O	HOH	W	92	52.729	19.620	63.961	1.00	47.35
12038	O	HOH	W	93	13.622	-12.644	54.323	1.00	35.22
12039	O	HOH	W	94	23.728	14.388	33.733	1.00	40.24
12040	O	HOH	W	95	62.835	27.468	15.771	1.00	41.05
12041	O	HOH	W	96	36.031	11.772	20.590	1.00	46.88
12042	O	HOH	W	97	3.076	-10.464	13.143	1.00	49.97
12043	O	HOH	W	98	42.623	-2.616	29.790	1.00	44.87
12044	O	HOH	W	99	25.046	40.112	22.342	1.00	34.56
12045	O	HOH	W	100	49.214	34.880	26.285	1.00	37.88
12046	O	HOH	W	101	14.501	19.184	10.953	1.00	28.92
12047	O	HOH	W	102	18.015	17.440	13.581	1.00	33.76
12048	O	HOH	W	103	7.031	8.720	5.695	1.00	39.04
12049	O	HOH	W	104	38.228	-1.744	62.647	1.00	41.14
12050	O	HOH	W	105	32.077	6.471	41.618	1.00	39.83
12051	O	HOH	W	106	35.152	11.772	88.493	1.00	41.13
12052	O	HOH	W	107	32.077	13.516	13.581	1.00	38.90
12053	O	HOH	W	108	0.879	13.516	1.314	1.00	28.74
12054	O	HOH	W	109	61.956	13.080	7.009	1.00	44.28
12055	O	HOH	W	110	25.925	7.848	7.885	1.00	43.70
12056	O	HOH	W	111	22.409	5.668	24.094	1.00	41.26
12057	O	HOH	W	112	21.970	26.596	13.143	1.00	41.24
12058	O	HOH	W	113	15.380	33.136	25.409	1.00	40.23
12059	O	HOH	W	114	16.258	16.132	10.514	1.00	33.85
12060	O	HOH	W	115	32.077	39.309	-2.628	1.00	40.95
12061	O	HOH	W	116	29.879	0.872	76.665	1.00	37.65
12062	O	HOH	W	117	25.925	17.004	54.323	1.00	41.65
12063	O	HOH	W	118	30.758	5.668	61.332	1.00	39.15
12064	O	HOH	W	119	39.107	-2.180	69.656	1.00	39.22
12065	O	HOH	W	120	29.440	24.416	-0.876	1.00	42.25
12066	O	HOH	W	121	12.304	33.136	22.780	1.00	43.23
12067	O	HOH	W	122	51.850	-5.232	74.474	1.00	44.14
12068	O	HOH	W	123	20.212	47.960	9.200	1.00	42.17
12069	O	HOH	W	124	31.637	22.672	9.200	1.00	40.64
12070	O	HOH	W	125	29.879	10.900	7.885	1.00	45.01
12071	O	HOH	W	126	19.773	23.108	19.276	1.00	39.78
12072	O	HOH	W	127	39.547	18.748	35.923	1.00	38.71
12073	O	HOH	W	128	7.031	27.904	21.466	1.00	35.18
12074	O	HOH	W	129	45.259	9.156	25.409	1.00	40.85
12075	O	HOH	W	130	20.212	-6.976	10.076	1.00	47.46
12076	O	HOH	W	131	54.925	25.288	15.333	1.00	51.51
12077	O	HOH	W	132	49.214	23.980	-1.314	1.00	40.13
12078	O	HOH	W	133	12.304	7.412	1.314	1.00	39.32

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
12079	O	HOH	W	134	18.455	22.672	5.695	1.00	25.41
12080	O	HOH	W	135	7.031	5.668	23.290	1.00	44.47
12081	O	HOH	W	136	36.910	6.609	46.876	1.00	35.88
12082	O	HOH	W	137	14.061	22.236	10.514	1.00	34.65
12083	O	HOH	W	138	18.455	33.572	31.542	1.00	31.97
12084	O	HOH	W	139	31.637	9.592	45.561	1.00	40.25
12085	O	HOH	W	140	25.925	22.236	-1.752	1.00	30.45
12086	O	HOH	W	141	38.228	40.984	24.970	1.00	40.78
12087	O	HOH	W	142	37.789	18.748	10.953	1.00	45.46
12088	O	HOH	W	143	31.198	1.308	52.570	1.00	38.25
12089	O	HOH	W	144	32.077	-5.668	73.160	1.00	44.64
12090	O	HOH	W	145	26.364	7.412	56.513	1.00	37.36
12091	O	HOH	W	146	17.137	23.108	-12.705	1.00	41.82
12092	O	HOH	W	147	3.076	24.416	-1.314	1.00	37.70
12093	O	HOH	W	148	33.395	-3.488	76.665	1.00	45.64
12094	O	HOH	W	149	45.259	32.700	30.228	1.00	55.45
12095	O	HOH	W	150	23.728	32.264	31.542	1.00	43.76
12096	O	HOH	W	151	54.486	21.364	-4.819	1.00	49.73
12097	O	HOH	W	152	3.955	27.032	1.314	1.00	48.19
12098	O	HOH	W	153	38.668	20.928	60.455	1.00	41.47
12099	O	HOH	W	154	3.955	10.900	7.885	1.00	37.12
12100	O	HOH	W	155	41.744	34.444	29.790	1.00	32.80
12101	O	HOH	W	156	43.501	-17.876	89.369	1.00	47.75
12102	O	HOH	W	157	25.925	4.360	11.829	1.00	45.42
12103	O	HOH	W	158	-2.197	1.744	28.038	1.00	47.83
12104	O	HOH	W	159	36.910	23.980	10.076	1.00	35.25
12105	O	HOH	W	160	29.879	-3.052	20.590	1.00	41.59
12106	O	HOH	W	161	7.470	17.440	-3.066	1.00	36.45
12107	O	HOH	W	162	54.925	-18.312	100.322	1.00	48.48
12108	O	HOH	W	163	15.819	-2.616	-7.447	1.00	43.47
12109	O	HOH	W	164	33.834	33.136	-2.628	1.00	47.74
12110	O	HOH	W	165	30.686	15.627	24.461	1.00	60.37
12111	O	HOH	W	166	28.122	7.412	23.656	1.00	43.48
12112	O	HOH	W	167	10.985	6.976	50.818	1.00	40.61
12113	O	HOH	W	168	46.577	21.364	23.656	1.00	41.14
12114	O	HOH	W	169	15.819	30.956	7.447	1.00	44.26
12115	O	HOH	W	170	28.195	28.409	-4.014	1.00	47.24
12116	O	HOH	W	171	28.122	49.268	4.819	1.00	43.85
12117	O	HOH	W	172	7.031	30.956	30.228	1.00	44.25
12118	O	HOH	W	173	25.925	2.616	80.170	1.00	54.77
12119	O	HOH	W	174	41.744	17.876	14.895	1.00	49.62
12120	O	HOH	W	175	26.804	-0.872	22.780	1.00	39.07
12121	O	HOH	W	176	23.728	-32.700	66.589	1.00	47.48
12122	O	HOH	W	177	-3.076	12.644	16.647	1.00	40.52
12123	O	HOH	W	178	12.304	3.121	21.466	1.00	31.20
12124	O	HOH	W	179	48.335	11.772	45.123	1.00	47.07
12125	O	HOH	W	180	3.515	19.184	3.504	1.00	39.80
12126	O	HOH	W	181	29.879	18.312	40.742	1.00	40.95
12127	O	HOH	W	182	9.228	38.804	15.771	1.00	44.11
12128	O	HOH	W	183	9.667	3.924	11.829	1.00	41.78
12129	O	HOH	W	184	23.728	-17.440	24.094	1.00	54.82

FIGURE 3 (Cont.)

A	B	C	D	E	F	G	H	I	J
12130	O	HOH	W	185	13.183	35.316	87.179	1.00	38.70
12131	O	HOH	W	186	18.894	30.956	-6.571	1.00	38.85
12132	O	HOH	W	187	30.319	-32.264	71.408	1.00	48.86
12133	O	HOH	W	188	29.879	13.080	57.827	1.00	45.23
12134	O	HOH	W	189	28.122	23.980	45.123	1.00	37.39
12135	O	HOH	W	190	45.259	13.516	46.437	1.00	38.08
12136	O	HOH	W	191	37.789	19.620	-9.200	1.00	46.94
12137	O	HOH	W	192	34.713	4.796	59.141	1.00	37.51
12138	O	HOH	W	193	27.682	36.188	20.590	1.00	49.70
12139	O	HOH	W	194	17.577	20.492	44.246	1.00	48.99
12140	O	HOH	W	195	5.273	28.776	-0.876	1.00	47.23
12141	O	HOH	W	196	5.712	9.156	-3.504	1.00	41.16
12142	O	HOH	W	197	14.501	4.796	-7.885	1.00	32.36
12143	O	HOH	W	198	18.455	22.672	-16.647	1.00	40.42
12144	O	HOH	W	199	65.471	3.924	66.589	1.00	49.30
12145	O	HOH	W	200	60.198	29.212	-0.876	1.00	40.61
12146	O	HOH	W	201	39.107	17.004	44.685	1.00	47.81
12147	O	HOH	W	202	18.894	11.336	18.400	1.00	37.88
12148	O	HOH	W	203	18.015	29.648	11.462	1.00	37.50
12149	O	HOH	W	204	-0.879	8.720	39.866	1.00	44.10
12150	O	HOH	W	205	34.274	6.976	-14.895	1.00	41.58
12151	O	HOH	W	206	24.606	32.700	28.038	1.00	34.97
12152	O	HOH	W	207	22.849	-4.360	71.408	1.00	49.46
12153	O	HOH	W	208	50.532	2.616	21.028	1.00	47.68
12154	O	HOH	W	209	37.422	18.312	-1.314	1.00	42.11
12155	O	HOH	W	210	36.983	-13.952	60.894	1.00	44.74
12156	O	HOH	W	211	32.955	9.592	39.428	1.00	42.46
12157	O	HOH	W	212	40.426	43.164	7.009	1.00	44.71
12158	O	HOH	W	213	26.804	46.721	14.019	1.00	48.96
12159	O	HOH	W	214	21.091	-15.260	86.303	1.00	43.20
12160	O	HOH	W	215	17.137	-2.180	15.333	1.00	42.85
12161	O	HOH	W	216	52.290	40.112	12.267	1.00	45.39
12162	O	HOH	W	217	36.910	-6.540	74.912	1.00	45.94
12163	O	HOH	W	218	65.911	14.824	64.399	1.00	46.97
12164	O	HOH	W	219	28.561	16.568	-16.647	1.00	47.67
12165	O	HOH	W	220	23.288	13.516	7.009	1.00	42.86
12166	O	HOH	W	221	22.849	0.436	77.103	1.00	47.31
12167	O	HOH	W	222	21.091	30.589	36.361	1.00	41.90
12168	O	HOH	W	223	20.652	3.924	88.931	1.00	48.14
12169	O	HOH	W	224	52.290	11.772	49.504	1.00	47.44
12170	O	HOH	W	225	38.668	17.440	31.980	1.00	46.05
12171	O	HOH	W	226	37.350	15.260	81.046	1.00	44.61
12172	O	HOH	W	227	40.426	5.668	74.912	1.00	42.41
12173	O	HOH	W	228	26.804	24.852	7.009	1.00	45.55

FIGURE 4

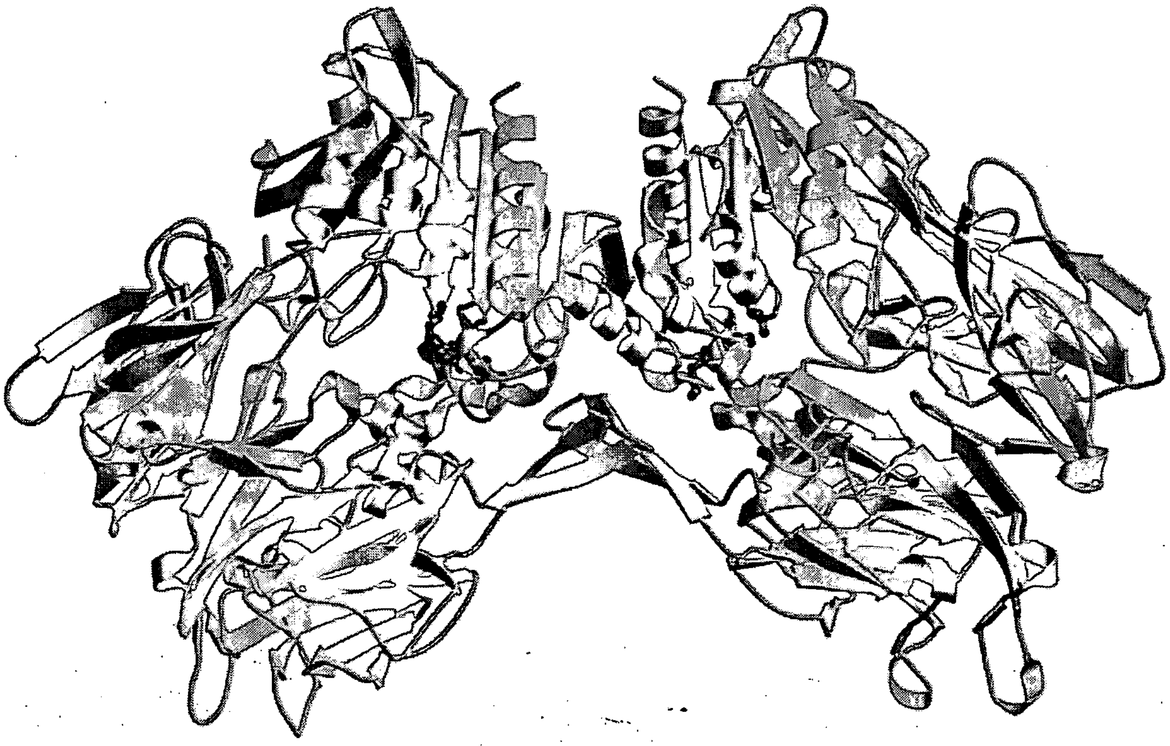


FIGURE 5

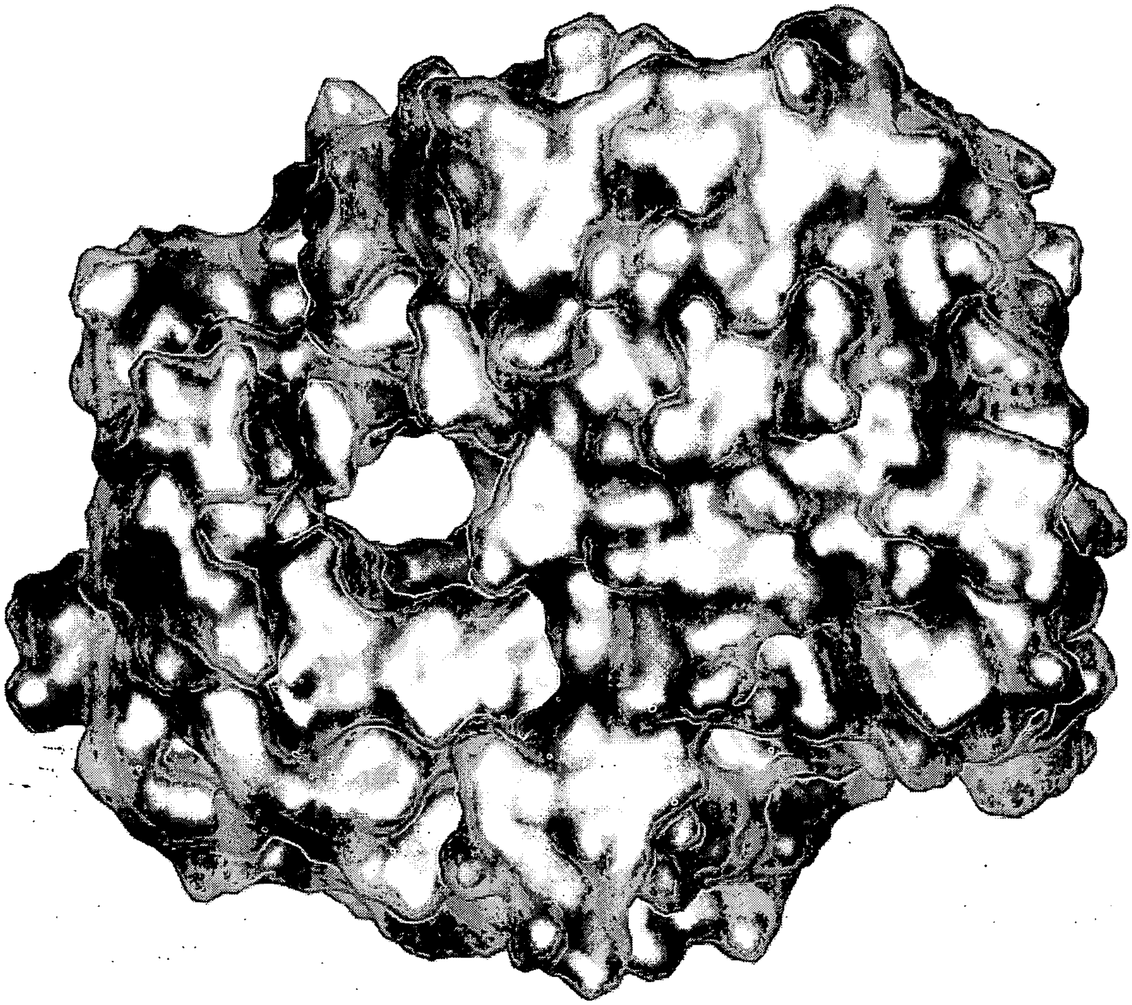
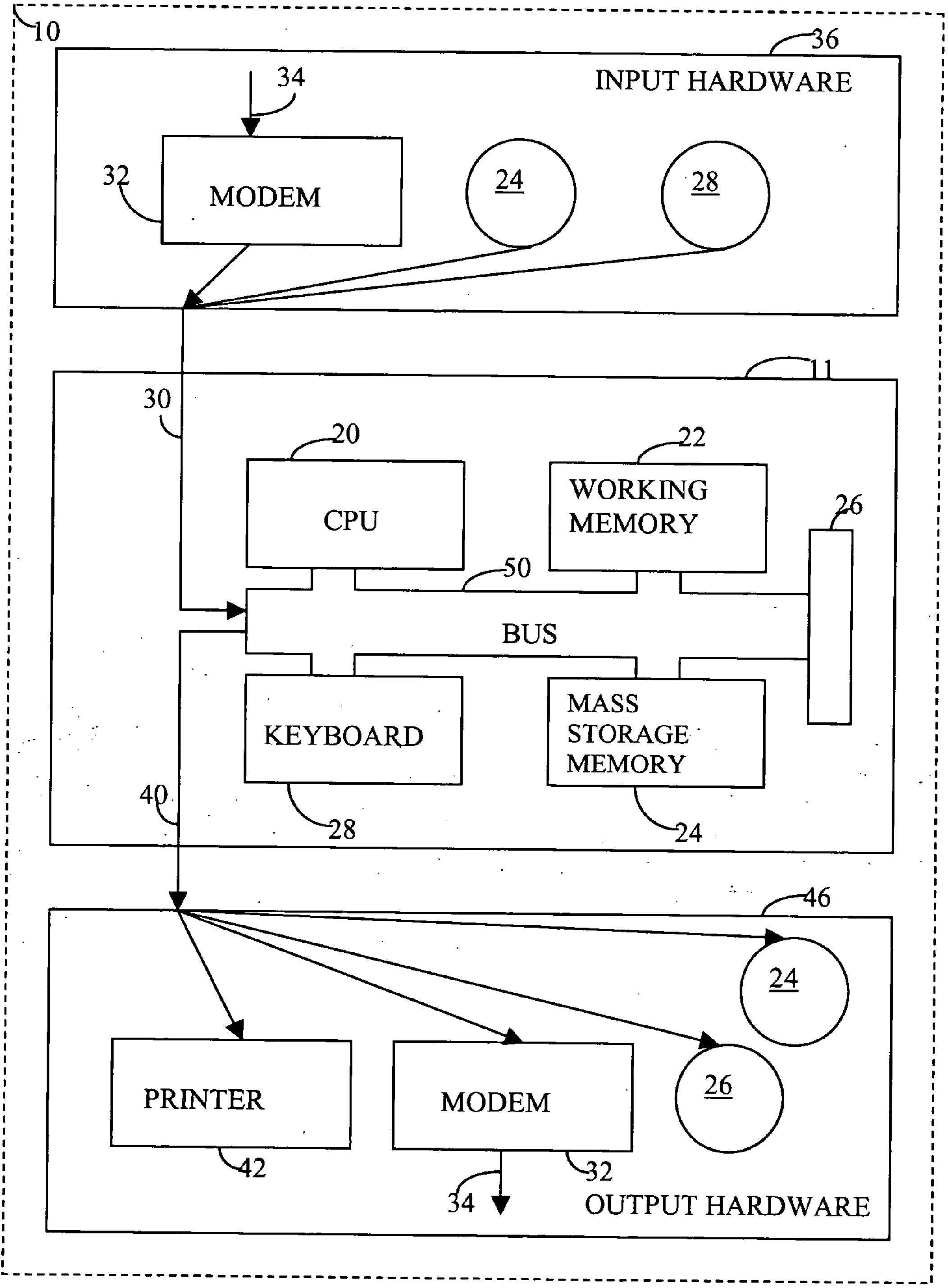


FIGURE 6


INPUT HARDWARE
MODEM
CPU
WORKING MEMORY
BUS
KEYBOARD
MASS STORAGE MEMORY
PRINTER
MODEM
OUTPUT HARDWARE